

TRANSACTIONS
OF THE
Seventh International Congress
OF
Hygiene & Demography.



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TRANSACTIONS

OF THE

Seventh International Congress of Hygiene and Demography.

LONDON, AUGUST 10TH-17TH, 1891.

Patron: H.M. THE QUEEN.

President: H.R.H. THE PRINCE OF WALES, K.G.

VOLUME XIII.

MISCELLANEA.

(SPECIAL MEETINGS, REPORTS, OFFICIAL LISTS, ETC.)



EDITED BY C. E. SHELLY, M.A., M.D.

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N O T E.

The last 128 pages of this volume (including the alphabetical list of authors and contributors to the Transactions and the reprints of the several tables of contents and indexes) will serve as a key to all the preceding twelve volumes. A sufficient indication of the class of subjects dealt with in any particular volume is afforded by its Title: a full list of the papers which it contains is comprised in its Table of Contents, and a more detailed reference is afforded by its Index; while, by consulting the Index of Authors and Contributors, it is possible to ascertain at once the place (volume and page) of the papers contributed to the Transactions and of the discussions taken part in by the several members of the Congress.



TABLE OF CONTENTS.

	Page.
Special Meeting on the Education and Registration of Plumbers - - - - -	7
The Closing Meeting of the Congress - - - - -	11
Report on the Seventh International Congress of Hygiene and Demography, by the Chairman of the Organising Committee - - - - -	41
Report on the History and Organisation of the Congress, by the Honorary Secretaries - - - - -	45

OFFICERS and EXECUTIVE of the CONGRESS :—

List of Vice-Presidents - - - - -	67
„ General Committee - - - - -	68
„ Honorary Council - - - - -	72
„ Honorary Foreign Council - - - - -	75
„ Honorary Council for the British Empire - - - - -	77
„ Organising Committee - - - - -	78
„ Indian Committee - - - - -	79
„ Reception Committee - - - - -	80
„ Ladies' Reception Committee - - - - -	81
„ Finance Committee - - - - -	82.
„ Editing Committee - - - - -	82.
„ British Delegates - - - - -	83
„ British Corporations, Societies, etc., with names of Delegates - - - - -	103
„ Indian and Ceylon Delegates - - - - -	129
„ Indian and Ceylon Governments, Corporations, Societies, etc., with names of Delegates - - - - -	133
„ Colonial Delegates - - - - -	137
„ Colonial Governments, Corporations, Societies, etc., with names of Delegates - - - - -	139

LIST of FOREIGN COMMITTEES and DELEGATES :—

Permanent International Committee - - - - -	141
Additional Members for Seventh Congress - - - - -	141
List of Foreign Committees for :—	
Austria - - - - -	143
Belgium - - - - -	143
Denmark - - - - -	144
France - - - - -	145
Germany - - - - -	147
Holland and the Netherlands - - - - -	148
Hungary - - - - -	149
Italy - - - - -	150
List of Foreign Delegates - - - - -	151
List of Foreign Governments, Corporations, Societies, and other bodies, with names of Delegates for :—	
Argentine Republic - - - - -	167
Austria - - - - -	167
Belgium - - - - -	170
Bulgaria - - - - -	171
Denmark - - - - -	172
Egypt - - - - -	172
France - - - - -	172
Germany - - - - -	176

	Page.
Greece - - - - -	179
Holland (<i>see</i> Netherlands) - - - - -	181
Hungary - - - - -	179
Italy - - - - -	180
Japan - - - - -	181
Mexico - - - - -	181
Netherlands - - - - -	181
Norway (<i>see</i> Sweden and Norway) - - - - -	184
Persia - - - - -	182
Portugal - - - - -	182
Roumania - - - - -	182
Russia - - - - -	183
Servia - - - - -	183
Spain - - - - -	183
Sweden and Norway - - - - -	184
Switzerland - - - - -	184
Turkey - - - - -	185
United States of America - - - - -	185
Venezuela - - - - -	186
List of Members - - - - -	187
List of Donations - - - - -	265
Index of Authors and Contributors to the Transactions - - - - -	287

TABLES OF CONTENTS AND INDEXES TO:—

Volume I.—(Preventive Medicine) - - - - -	301
Volume II.—(Bacteriology) - - - - -	313
Volume III.—(The Relations of the Diseases of Animals to those of Man) - - - - -	325
Volume IV.—(Infancy, Childhood, and School Life) - - - - -	335
Volume V.—(Chemistry, and Physics in relation to Hygiene) - - - - -	345
Volume VI.—(Architecture in relation to Hygiene) - - - - -	355
Volume VII.—(Engineering in relation to Hygiene) - - - - -	363
Volume VIII.—(Naval and Military Hygiene) - - - - -	373
Volume IX.—(State Hygiene) - - - - -	381
Volume X.—(Demography) - - - - -	393
Volume XI.—(Indian Hygiene and Demography) - - - - -	403
Volume XII.—(Municipal Hygiene and Demography) - - - - -	413



The Education and Registration of Plumbers.

(SPECIAL MEETING.)

At the Special Meeting held in the afternoon of Tuesday, the 11th of August, at Burlington House, in connexion with the Seventh International Congress of Hygiene and Demography, on the subject of "The Education and Registration of Plumbers in Relation to Public Health," Sir Douglas Galton (Chairman of Organising Committee of the Congress) presided. Among those who supported him were the Master of the Plumbers' Company (Mr. W. H. Bishop), the Lord Provosts of Edinburgh, Dundee, and Aberdeen, Sir Philip Magnus, Sir George Wycherley, Bart., M.D. (Cork), Sir D. Maclagan, M.D. (Edinburgh University), Sir Henry Acland, K.C.B., Dr. George Buchanan, medical officer, Local Government Board, Mr. P. Gordon Smith, architect, Local Government Board, Professor W. H. Corfield, M.A., M.D., Dr. J. Maxwell Ross, medical officer of health for the county of Dumfries, Professor Matthew Hay, M.D. (Aberdeen University), Dr. H. E. Armstrong, medical officer of health, Newcastle-on-Tyne, Professor Corby, M.D. (Cork), Professor G. F. Armstrong (Edinburgh University), Dr. Henry Tomkins, medical officer of health, Leicester, Alderman Evan Fraser (Hull), Councillor Kirtley (Sunderland), Mr. E. Hart, Mr. J. Smeaton, Dr. Whitaker, Mr. J. C. Bretland, Mr. W. J. Gilliland (Belfast), Mr. J. Wreghitt Common, F.R.I.B.A., Mr. W. Braithwaite, Mr. R. Ossit (Leeds) and others.

The attendance was a large one, and among those present were representatives from the following towns in England and Wales: Birmingham, Bradford, Brighton, Bristol, Cardiff, Hull, Leeds, Leicester, Lincoln, Liverpool, Manchester, Newcastle, Nottingham, Plymouth, Preston, Sheffield, Southampton, Sunderland, Swansea. Scotland: Aberdeen, Dumfries, Dundee, Edinburgh, Glasgow, Inverness. Ireland: Belfast, Cork, Dublin, and Limerick.

The CHAIRMAN, in opening the proceedings, said he had hoped that the duty of presiding at that meeting would have fallen into more able hands than his, for it was thought that Mr. Ritchie (the President of the Local Government Board) would have presided, but he unfortunately had to leave town before the meeting. Then, in the next place, it was thought that they would have had the assistance of Lord Basing, a former chief at the Local Government Board, but he had been compelled unexpectedly to leave London. So the duty of presiding had fallen upon him. He did not know that there was any portion of the great Congress which was being held in that building which was of higher importance than the subject for the discussion of which the meeting had been convened. (Hear, hear.) They were, doubtless,

aware that the health of communities depended in a great measure upon the efficient carrying out of the details of plumbing, and the Plumbers' Company had been most anxious during the last few years to improve the education of workmen engaged in this important branch of work. He could assure the Plumbers' Company he had always felt the warmest sympathy with their efforts—(Applause)—and he could bear witness to the work done by the Master and Wardens of the Company, and he might add that their efforts had produced the most valuable results. (Hear, hear.)

The MASTER of the PLUMBERS' COMPANY read a report on the subject, referring to the efforts made by the Company in conjunction with numerous public and other bodies, to extend among workmen a technical knowledge of the art of plumbing, and to secure the registration of qualified men. It was now about seven years since this work had been begun, and at the present time there were 950 persons engaged in the chief towns of the United Kingdom and Ireland in assisting to carry out the objects of the movement. The movement had, however, now reached a position when it was felt that it was necessary to give some legislative encouragement to it, and the Plumbers Company had prepared a draft Bill which they considered should be presented to Parliament during the next session, for the purpose of carrying out the proper education and registration of plumbers in the United Kingdom. (Applause.)

The LORD PROVOST OF EDINBURGH moved the following resolution:—"That this special meeting of the International Congress of Hygiene, assembled to consider the necessity for securing the greater sanitary efficiency of the plumbers' work and drainage of dwelling-houses and other buildings, desires to record its opinion that an organised and efficient system of registration of qualified plumbers is essential to the protection and preservation of the health of the community, and that such a system having been established in the chief cities and towns of Great Britain and Ireland, by the joint action of the Worshipful Company of Plumbers, London, and the plumbers and sanitary authorities of those places, the time has now arrived when application should be made to Parliament for powers enabling a council of competent jurisdiction and authority to take measures for systematically promoting technical education among plumbers in all parts of the United Kingdom and for regulating the practice of those plumbers who are enrolled as registered plumbers." His lordship said it was generally admitted that there was a great need for dealing with such an important subject as the registration and education of plumbers in a manner which had not been before attempted. In seeking to bring this about, the Plumbers' Company had done an immense amount of good—(Applause)—and had given the public the benefit of their experience. At the present day plumbers' work had become most complicated in its details, and where it was not done properly the public undoubtedly suffered. If this danger could be avoided, the householder would feel that a great

responsibility had been lifted from him, and it was the aim of those interested in the subject to put the work into the hands of duly qualified and registered workmen. There were associations in which plumbers were registered, and much good had probably been done; but it was quite clear that there must be different standards of excellence, and in different parts of the country the standard would vary. It was therefore rightly thought that it would be the best thing to bring them together under one central organization, which should have the control of the whole. Such a movement as this was well fitted to inform the public mind in regard to such important matters of health, and in carrying out the project to the end the plumbers of the United Kingdom and Ireland would be expected to attain the highest standard of excellence. (Hear, hear.)

MR. COUNCILLOR CRAWFORD (Chairman of the Health Committee of the City of Glasgow), in seconding the resolution, remarked that in Scotland the title of the subject was really understood to be plumbing reform. (Applause). His connexion with the movement was as the Chairman of the Health Committee of the Corporation of Glasgow, and he had some short time ago attended a conference composed of practical men in the trade, and bearing in mind the fact that Scotchmen were held to be a hard headed race, who were not given to imaginary views, he considered that the unanimous approval of the movement which was given at that conference was a compliment to the Plumbers' Company—(Hear, hear)—and proof of the practical character of the scheme. He hoped he would not be accused of hurting the feelings of the plumbers present when he said that they had not all travelled with the times. But he thought the plumbers and the public generally had at last begun to realize that something would have to be done to bring the craft up to the standard of modern means and requirements. (Hear, hear). He was glad to know that this movement was no way associated with any idea of increasing the profits of the masters (laughter), but simply and solely for the public good. The basis of such a movement was education, and in his own mind that was really the key of the whole thing. (Applause.) Then they wanted statutory powers, and in seeking to properly develop the scheme of the Plumbers' Company, he thought that Parliament should be asked to give its aid. (Hear, hear.)

Sir CHARLES CAMERON, M.D. (Medical Officer of Health, Dublin), in supporting the resolution, said although the Scotch might be called a hard-headed race and not given to imaginary views, he thought the Irish could claim to be highly imaginative (laughter), but upon the question of the proper education and registration of plumbers extremes did certainly meet. (Hear, hear.) The movement had been unanimously adopted in Dublin, thanks to the exertions of the Plumbers' Company, who sent over a Deputation, and quickly succeeded in establishing a branch organization in connexion with the Company. Referring to some sanitary work which had been carried out in Dublin, Sir Charles said, when plumbers were wanted, the ironmongers came boldly

forward, then the glaziers, and finally the "handy" men (laughter), which showed what a great need there was for duly qualified plumbers.

Mr. DAVID LAING, a registered plumber, said he inferred from the resolution moved by the Lord Provost, and the remarks made by Mr. Crawford, that there was a wide difference between the views expressed as to compulsory registration.

The resolution having been read to the meeting—

Mr. LAING said while giving all honour and credit to the Plumbers' Company for the part they had taken in the movement, he could but think that Parliament should not be asked to pass a Bill, as had been proposed, because if, as had been suggested, a plumber should be made as qualified in his own way as a doctor or a druggist, it would be raising the trade to the position of a profession (Sir DOUGLAS GALTON : Hear, hear). Now he did not think the British workmen was prepared for that, and he pointed out that doctors and druggists were entitled to employ men who were not qualified. He considered that the best course to pursue was the giving of certificates for the quality of the work done, leaving it to the Plumbers' Company to afford technical education.

Mr. ELLIOTT (Plymouth) heartily supported the resolution, and thought the scheme could be very well worked out from both points. He was sure the Plumbers' Company would act wisely in taking the journeymen plumbers in hand—(Hear, hear)—and the apprentices also, and as to any possible objection there might be on the part of the boys, the masters could decline to take apprentices whose parents objected to their learning the technical work of the trade. (Hear, hear.)

The MAYOR OF MANCHESTER said he would take this opportunity of expressing his acknowledgments and those of the people of Manchester to the Plumbers' Company for what they had done. He considered it of the highest importance that the scientific part of the plumbers' trade should be properly understood by workmen, and, further, that all taps and water-pipes in new houses should be thoroughly inspected, and that bye-laws should be enforced as to the registration of inspectors. (Applause.)

The CHAIRMAN pointed out that it was not the Plumbers' Company who were suggesting the proposed Bill simply as their own idea; on the contrary, they had been called upon by various boroughs in the United Kingdom to bring forward a Bill with the objects of which the heads of corporations deeply sympathised.

The resolution was then adopted, and Mr. Laing was the only dissident.

On the motion of Dr. CORBY, seconded by Sir HENRY ACLAND, a hearty vote of thanks was accorded the Chairman for his presence in the chair and the interest he took in the movement.

The CHAIRMAN, in replying to this vote, congratulated the Plumbers' Company on the value of the work they had carried through. (Applause.)

The proceedings then terminated.



T H E

Seventh International Congress of Hygiene
and Demography.

THE CLOSING MEETING.

The final general meeting of the Congress was held at 11 o'clock in the morning of Monday, the 17th August, in the theatre of the University of London, Burlington Gardens, under the presidency of Sir Douglas Galton.

There was a large attendance, and among those present were a large number of the foreign delegates.

The CHAIRMAN, in opening the proceedings, said,—In taking the chair at this closing meeting I would beg, as chairman of the organising committee, to make a few observations before we proceed to the regular business of the meeting. I desire, in the first place, to congratulate the Congress on the success of the present meeting. The number of members exceeds those who have taken part in any previous meeting. Many of the papers possess a very high value, and will have a permanent influence on the branches of hygiene and demography to which they severally refer. The number of foreign delegates and of foreign members is highly flattering to us as a nation. Our success has been due, first to the gracious patronage of the Queen, and to the strong personal interest which has been taken in the Congress by our president, the Prince of Wales, who not only opened the Congress in an admirable speech (which you all heard), but who arranged that a delegate from the Government of every foreign country represented at the Congress should have the honour of being introduced by himself personally to the Queen. The success of the Congress, as an international gathering, is also due to the fact that we, as a nation, have many matters of interest to show to foreigners. I think I may say that the chief difference between our hygienic progress and that of our Continental neighbours is that whilst they are especially fortunate in being able to pursue the theories upon which much of modern hygienic progress is based, with us public opinion has hindered the study of many physiological questions, the solution of which depends upon the examination of living tissue. Hence, we at present are in this respect somewhat behind the Continental schools, and we largely turn our attention to applying their theories to alleviate the wants of life. Hence we can show much of interest in practical hygiene in matters both of construction and administration. Our methods of water-supply and drainage, our various plans for refuse disposal or utilization, our isolation hospitals and ambulance systems

present many interesting features. The arrangements which are being made to introduce sanitary knowledge and efficiency of workmanship in trades (such as the plumber's), upon which the practical sanitation of parts of our houses largely depends, are deserving of consideration; and the health administration of the large cities of Glasgow and Manchester is especially worthy of the study of our visitors. The organisation of this Congress has differed from that of former Congresses in the increased number of sections into which it was divided. In proportion as the study of hygiene and demography becomes more elaborate the classification must necessarily be more detailed, and the number of sections must either gradually increase or the sections must subdivide. Independently of the increased number of sections, it was found necessary to give two afternoons to the discussion of questions connected with the sanitation of our Indian Empire, which, for the first time in the history of these Congresses, was represented by a large number of delegates. The native Princes of India evinced deep sympathy with the Congress, and I trust that the interest which has been evoked in its object may lead to beneficial results in that great country. In the arrangement of sections there is also a difficulty in drawing the line between hygiene and demography, for demography does not mean bare statistics. For instance, demography properly includes health conditions appertaining to industrial occupations and school life. But these subjects also properly belong to hygiene, and many sections necessarily include subjects falling under both titles. A principal object of the Congress is, without doubt, to afford to scientific men in different countries the opportunity of conferring together. But it has another and most important object, viz., to excite the interest of the community at large in the knowledge of the laws of health. Your president the other day asked the pertinent question, Why, if diseases are preventible, are they not prevented? The answer to that question is, that whilst an instructed minority may understand the importance of observing hygienic laws, a very large section of the community is careless of, and indifferent to, their observance, and consequently the portions of those laws which are individual and personal in their application are left a dead letter. Acts of Parliament are of little avail so long as the people they are framed to guide do not realise their value or importance, and it is quite certain that the only way to stamp out preventible disease is to educate every member of the community to feel the importance of the laws of health. A great international Congress like this brings the subject prominently before the public and has a valuable influence on the country in which it is held. I have already detained you too long. But I must add, as chairman of the organising committee, that we have endeavoured to make the Congress useful and agreeable to those who have honoured us with their presence. The success which we have had is mainly due to our secretary general (Dr. Poore), our foreign secretary (Dr. Corfield), and, as far as India is concerned, to the energy of Mr. Digby. The excellence of the social arrangements is entirely due to the organising power and tact of the secretary of the reception committee, Mr. Malcolm Morris. But you will have an opportunity of thanking

the executive before the end of this meeting. If there have been shortcomings, the organising committee much regret them. The only apology we can offer is that a voluntary organisation suddenly created to fulfil the requirements of the moment may have been somewhat strained at first by the number who appeared on Monday morning—a number far in excess of that which former experience led us to anticipate, and I would say in conclusion, in the words of our poet Prior—

“Be to our virtues very kind,
“Be to our faults a little blind.”

(Cheers.)

DR. POORE, the Honorary Secretary-General, then read for the information of the meeting the various resolutions which had been passed by the different sections.

In **Section I.** (Preventive Medicine) no resolutions were passed, but on the conclusion of the debate on diphtheria—

- A.** “An opinion was expressed by the Section as to the extreme expediency of the European Governments making a comprehensive and systematic inquiry into the causes of diphtheria.”

In **Section II.** (Bacteriology) it was proposed by Professor ARLOING (Lyons), seconded by Dr. SEPTIMUS GIBBON, and carried unanimously

- B.** “That the Section recommends that the following subject be referred to the next meeting of the Congress (1894) as a subject of inquiry and discussion:—

The Ætiology of the Tuberculous Diseases of Infancy.”

In **Section IV.** (Infancy and Childhood) it was proposed by Dr. SHUTTLEWORTH (Lancaster), seconded by Mr. GRAHAM BALFOUR, and carried unanimously:

- C.** “That, according to the returns prepared by Dr. Warner on the feeble-minded, epileptic, &c., it would appear that an appreciable number of children, though not imbecile, are more or less defectively developed in brain and body. That for their training and education special arrangements are necessary, and that in the absence of such arrangements there is grave moral and mental deterioration.”

The following resolution, proposed by Dr. KOTELMANN (Hamburg) on behalf of Dr. LUDWIG STRUMPELL (Leipzig), Dr. F. L. A. KOCH (Leipzig), Dr. EMIL SCHMIDT (Leipzig), Dr. ERNST HASSE (Leipzig), and amended by Dr. WARNER, was carried with one dissentient:

- “That this Congress do appoint a commission consisting of persons severally conversant in—
- “(1.) Examination of the physical condition of children;
“(2.) Mental conditions and diseases;
“(3.) Education and methods of dealing with children;
D. “(4.) Statistical compilation of facts;
whose duty it shall be to inquire into the condition of children in schools and elsewhere, and to carry out the same upon a

fixed plan. This Congress empowers the commission to add to their number, and to appeal to recognized authorities as sources of assistance if necessary."

The following were proposed as members of the Commission, Dr. Warner being the convener :—

Dr. KOTELMANN	-	-	-	Hamburg.
Dr. JACOBI	-	-	-	New York.
Dr. ROUSSEL	-	-	-	Paris.
Dr. BURGERSTEIN	-		-	Vienna.
Dr. KUBORN	-	-	-	Seraing-Liège.
Mr. DIGGLE	-	-	-	London.
Mr. SPALDING	-	-	-	London.
Dr. WARNER	-	-	-	London.

A resolution proposed by Dr. KOTELMANN (Hamburg), seconded by Mr. JACKSON, and amended on the motion of Mr. NOBLE SMITH and Dr. GLADSTONE, was passed as follows by 28 votes against 1 :

E. *"That as the hygienic advantages of vertical writing have been clearly demonstrated and established both by medical investigation and practical experiment, and that, as by its adoption the injurious postures so productive of spinal curvature and short sight are to a great extent avoided, it is hereby recommended that upright penmanship be introduced and generally taught in our elementary and secondary schools."*

The following resolution, passed by the School Board for Hull, was submitted to the section :

F. *"That this Board is strongly of opinion that while the sanitation of public elementary schools has been much improved under State regulations, a large number of private adventure schools exist which are gravely deficient in sanitary arrangements, and are subject to no proper sanitary inspection whatever, and that steps should be taken by the Congress to impress upon the Government the necessity of placing these schools under some efficient system of inspection."*

It was unanimously resolved that the above resolution should be entered upon the minutes of the Section.

It was moved by Professor BURGERSTEIN and seconded by Professor GLADSTONE, and carried :

G. *"(1.) That it is desirable that the question of mental over-pressure should be investigated by exact experimental methods (unanimous)."*
"(2.) That until the question of over-pressure has been carefully investigated in a proper scientific spirit, school lessons generally should not last longer than three-quarters of an hour, followed by a quarter of an hour's rest (four dissentients)."

The following resolutions were carried after discussion and amendment :

H. " (1.) *That the hours for home-lessons out of school be restricted.*

" (2.) *That ample physical recreation be carried out.*

" (3.) *That in the intervals between exercise the body should be properly rested."*

It was moved by Dr. SCHOFIELD, seconded by Dr. PASTEUR, and carried unanimously :

I. " *That this Congress warmly advocates the instruction of girls and women in domestic hygiene as an integral part of their education."*

The following resolution was carried by 75 votes to 22 :

J. " *That this Congress, asserting the duty of the State towards its future citizens, in the matter of education, declares that the feeding and clothing of destitute and neglected children is necessary for efficient education ; and where such destitution or neglect is due to the misconduct of the parent or guardian of the child, it is the duty of the legislature to visit that misconduct with penal consequences."*

It was moved by Dr. CAMPBELL, seconded by the PRESIDENT of the Section, and carried unanimously :

K. " *That the time has arrived when the blind, deaf, and dumb should have a well-graded, practicable, comprehensive course of instruction. That the training of the blind, deaf, and dumb should not be conducted on a charitable basis, but should form a part of the national system of education."*

In **Section VI.** (Architecture) the following resolution was proposed by Dr. SYKES, seconded by Mr. ROLAND PLUMBE, and carried unanimously :

L. " *That special legislation for the control of block-dwellings for the industrial classes in cities is requisite."*

It was moved by Dr. SYKES, seconded by Mr. ERNEST TURNER, F.R.I.B.A., and supported by Mr. ROGERS FIELD, C.E., and carried unanimously :

M. " *That the members of the Architectural Section desire to consider the resolution adopted by the Section of State Hygiene approving of the statutory examination and registration of architects, before the definite adoption of the resolution by the Congress. They are of opinion that this question should have been referred to Section VI., 'Architecture in Relation to Hygiene.'"*

The resolution was put and carried unanimously.

In **Section IX.** (State Hygiene) it was proposed by Dr. DANFORD THOMAS (London), seconded by Dr. LITTLEJOHN (Edinburgh), and carried with one dissentient :

" *That, in the opinion of this Section of the International Congress of Hygiene and Demography, it is essential in the*

- N.** *public interest that the existing law regulating the sale of poisons should be amended, and greater restrictions placed on the sale of poisons generally in all countries, and especially in Great Britain, India, and the British Colonies."*

It was moved by Sir HENRY THOMPSON (London), seconded by Mr. ERNEST HART (London), and carried with four dissentients :

- O.** *"That the cremation of the dead is a rational and hygienic procedure which is specially called for where death occurs from contagious disease."*

It was moved by M. GEORGES SALOMONS (Paris), seconded by Mr. LITHIBY (London), and carried unanimously :

- P.** *"That all governments should remove legislative obstacles to the cremation of dead bodies, and that they be recommended to adopt cremation of bodies on the battlefield."*

It was moved by Mr. MARK JUDGE (London), seconded by Mr. W. J. Fletcher (Wimborne, Dorset), and carried unanimously :

- Q.** *"That, in the opinion of this Section, architects ought to be registered as to qualification before being eligible for any public appointment."*

It was moved by Mr. SETH SMITH (London), seconded by Dr. GEORGE REID (Stafford), and carried by 22 votes against 14 :

- R.** *"That the Section cordially approves the principle of the statutory examination and registration of architects in the interests of the public health."*

It was moved by Dr. GEORGE REID (Stafford), seconded by Mr. HUGH ALEXANDER (London), and carried with one dissentient :

- S.** *"(1.) That the present conditions relative to the appointment of inspector of nuisances are not calculated to secure the efficient administration of the Public Health and other Sanitary Acts, and that reform is urgently needed in the direction of increased salaries and allowance for travelling expenses in scattered districts, greater security of tenure of office, definition of size of districts as regards area and population that may be entrusted to one officer, the production of evidence of fitness in the shape of some diploma by all candidates for such appointments, and the limitation of duties (except, perhaps, in the case of very small districts) to those purely pertaining to the office."*

"(2.) That it is desirable to confine the appointments of inspectors of dairies, and cow-sheds, and milk shops, and canal boats to inspectors of nuisances."

"(3.) That a copy of the above resolutions be forwarded to the Local Government Board."

It was moved by Dr. THORNE THORNE and carried unanimously :

- T.** *"That this Section cordially approves the action taken by the Worshipful Company of Plumbers for improving the education and position of Plumbers."*

It was proposed by Dr. LOWE, and seconded by Dr. SPOTTISWOODE CAMERON (Leeds), and carried by a large majority :

- U 1.** “ *That notification of infectious diseases in all countries should be made compulsory.*”

It was proposed by Dr. A. J. MARTIN (Paris), seconded by Dr. VIVANT (Monaco), and carried by a large majority :

- U 2.** “ *That it is desirable that notification of infectious diseases should be made by the medical attendant.*”

It was proposed by Dr. CURRIE (New Brunswick), seconded by Dr. FARRELL (Nova Scotia), and carried by a large majority :

- U 3.** “ *That, in the opinion of this Section, notification of infectious disease should be made compulsory upon the medical attendant and the householder in whose house the disease occurred.*”

It was moved by Mr. LITHBY, seconded by Dr. BARRY, and carried unanimously :

- V.** “ *That the cordial thanks of this Section of the International Congress of Hygiene and Demography be conveyed to Professor Vilanova y Piera, of Madrid, Dr. Guillaume, of Berne, and Dr. Hewitt, of Minnesota, for the valuable works relating to matters connected with public health which they have presented to the Congress.*”

In **Division II.** (Demography) the following resolution was proposed by Mr. ERNEST HART, seconded by Mr. GRAHAM BALFOUR, and carried unanimously :

- W 1.** “ *That an investigation which has been made in regard to the conditions of bodily development and brain action in some 50,000 children indicates new and grave problems respecting the provision necessary for the care and training of those who are more or less defective in make, and also respecting the causation, in certain districts, of mal-developments which are much associated with defects of the brain ; and that an extended scientific inquiry is desirable for the further elucidation of the subject.*”

The following resolution, proposed by Dr. GEORG VON MAYR (Munich), and seconded by Professor F. VON JURASCHEK, was carried :—

“ *This Division of Demography recommends the collection of the following statistical facts and the development of the same—A. In those countries in which an official insurance of the working-classes exists : I. As regards Sick Insurance. (1) The insured should be classified as to sex, age, conjugal condition, and occupation. (2) The actual occupation of the insured ; his position in such occupation ; the length of time he has been engaged in it ; and also his previous occupation (if any) should be noted. (3) The duration of his insurance should be ascertained. (4) With reference to diseases that*

- terminate fatally, the duration of such illnesses should be noted, together with the time of their appearance and the cause of death. II. As regards Insurance against Accidents. The same data will be required as in the foregoing class; and, in addition, a record should be made of the nature, gravity, and consequences of the accident, the time of its occurrence, and the industrial arrangements obtaining when it occurred. III. Statistics should be given of the wages paid to each workman and of his hours of labour. IV. Such statistics should be kept for each branch of industry, and should be made up every half year. V. The statistics referred to should be prepared in a central office or labour bureau, after consulting the employer and the workman as to the correctness of the same. B. In those countries in which no official insurance of the working classes prevails, the same data as above should be furnished."

It was also unanimously resolved, on the motion of Dr. PAUL BROUSSE (Paris), seconded by Mr. ADOLPHE SMITH (London), that the following questions be inscribed upon the Agenda for the next Congress :

- X. "The duration of the day's work in relation to the health of the worker, and its consequences on public health."

At the Special Meeting for the consideration of Indian Sanitation, the following resolution, proposed by Sir WILLIAM WEDDERBURN, Bart., seconded by Sir DOUGLAS GALTON, K.C.B., and supported by Professor CORFIELD, was carried unanimously :

- Y. "That, looking to the interest shown by India in this Congress, and considering the probability that other tropical countries and colonies would take a similar interest in future Congresses if a more prominent position were given to the consideration of subjects in which they are specially interested, this meeting recommends to the permanent committee that in future Congresses a Tropical Section be formed, with a view to a more full discussion of questions affecting sanitation and the origin of disease in tropical climates."

At a Special Meeting of the Congress, held on August 11th to consider "*The National Registration of Plumbers in relation to the Public Health*," it was moved by the LORD PROVOST OF EDINBURGH, seconded by the CHAIRMAN OF HEALTH COMMITTEE OF GLASGOW, supported by the MAYOR OF MANCHESTER, and by the MEDICAL OFFICER OF DUBLIN, and carried unanimously :—

"That this Special Meeting of the International Congress of Hygiene, assembled to consider the necessity for securing the greater sanitary efficiency of the plumbers' work, and the drainage of dwelling-houses and other buildings, desires to record its opinion that an organised and efficient system

Z.

of registration of qualified plumbers is essential to the protection and preservation of the health of the community, and that such a system having been established in the chief cities and towns in Great Britain and Ireland by the joint action of the Worshipful Company of Plumbers, London, and the plumbers and sanitary authorities of those places, the time has now arrived when application should be made to Parliament for power enabling a council of competent jurisdiction and authority to take measures for systematically promoting technical education among plumbers in all parts of the United Kingdom, and for regulating the practice of those plumbers who are enrolled as registered plumbers."

Professor W. H. CORFIELD, the Hon. Foreign Secretary, reported that at a meeting of the Permanent Committee, which was held on Friday, 14th August, it had been resolved that, as the next meeting of the International Medical Congress was to be held in Rome in 1893, it was undesirable that a meeting of the Hygiene and Demography Congress should be held in the same year, and that, therefore, their next meeting should be postponed until 1894. The committee had received two invitations from different places for their next meeting—an official one from the authorities of Budapest by Mr. Körösi for 1893 or 1894, and an unofficial one, from Dr. Hewitt, of Minnesota, asking that the Congress should be held in Chicago in 1893 at the time when the International Exhibition was to be held there. The committee had decided to accept the invitation from Budapest, at the same time thanking Dr. Hewitt, as they thought that it would not be desirable that the Congress should be held twice in succession in English-speaking countries. (Hear, hear.)

Dr. BROUARDEL, of Paris, President of the Permanent International Committee, moved the following resolution:—

"That this Congress accepts with cordial satisfaction the invitation of the authorities of Budapest to hold the next meeting of the Congress in that city in 1894: That the Permanent Committee of Hygiene and Demography be re-elected, with the addition of Professor Fodor and Professor van Overbeek de Mejer for Hygiene, and Dr. E. Janssens and Mr. Joseph Körösi for Demography, with power to add to their number."

He said:—Monsieur le président, mesdames, messieurs, au nom du comité permanent du congrès international d'hygiène, j'adresse aux hygiénistes anglais, aux membres du comité d'organisation et à son président, Sir Douglas Galton, nos plus vifs remerciements.

Plus de trois mille personnes ont participé aux actes du congrès de Londres. Il est déjà permis de trouver, dans le concours fourni par nos collègues anglais, une preuve de l'intérêt qu'ils portent aux questions de l'hygiène. Mais ce qui nous a tous frappés, et c'est là ce qui restera dans notre mémoire, c'est que, en Angleterre, chacun, quelle que soit sa condition sociale, quelle que soit son éducation, sait parfaitement que

respecter les lois de l'hygiène c'est assurer la vie, la santé des siens, écarter la misère de la maison.

Nous emporterons le souvenir de cette visite faite à un grand peuple, où tous ont consenti à faire les sacrifices d'argent et même de liberté personnelle nécessaires à la santé de chacun.

Nulle part nous n'avons eu sous les yeux un tel exemple de solidarité dans l'effort, et tous nous ferons le possible pour arriver aux mêmes résultats en suivant les mœurs, les coutumes propres à chaque pays.

Messieurs, nous emporterons de Londres un autre souvenir. Grâce à votre hospitalité, nous avons contracté ici de solides amitiés. Vous avez été des hôtes admirables, vous vous êtes prodigués pour nous rendre le séjour dans votre ville agréable et instructif. Nous vous en remercions, et vous pouvez être sûrs qu'aucun de nous n'oubliera les heures qu'il a passées au sein de vos familles.

Permettez-moi d'ajouter que nous avons été particulièrement touchés des prévenances qu'ont bien voulu avoir pour les délégués des nations représentées au congrès Sa Gracieuse Majesté la reine et son Altesse Royale le prince de Galles. Nous prions notre président de leur porter le témoignage de notre respectueuse reconnaissance.

Messieurs, dans trois ans nous nous retrouverons dans un autre pays ; faisons des vœux pour que, à cette date, les progrès inspirés par notre séjour à Londres nous permettent de dire au président, Sir Douglas Galton, et à ses collègues du comité, que leurs efforts n'ont pas été stériles.

Dr. WILLIAM OGLE, of London, in seconding the motion, expressed his pleasure in seeing that the invitation to hold the next meeting at Budapesth came through the hands of a distinguished statistician. The statistical method of investigation had its birthplace in England, being nothing more than the "Political Arithmetic," which was brought into use in the 17th century by Graunt, Petty, and other English writers. It must, however, be confessed that the art had not received from its mother that amount of care and attention in after times that so promising a child might fairly have expected to be devoted to its development. Its value had been much more fully recognised abroad than in the country of its birth ; and one consequence of this was that in the statistical division the proportion of foreign members had been much larger than in the Congress as a whole ; and, in the unavoidable absence of Mr. Galton, who had presided over that division, he wished to be allowed to express the thanks of the English statisticians to those distinguished colleagues who had come laden with valuable contributions from France, Germany, Austria, Switzerland, Hungary, Russia, America, and other foreign countries. One thing, however, they had imported into this country, to which he could not but take exception, and that was the term *demography*, which appeared to him to be a very barbarous word, and far inferior to the original name to which he had already adverted, "Political Arithmetic." If it was impossible to revert to this ancient designation, he trusted that at any rate some other name less barbarous than *demography* might be devised and adopted.

The resolution was carried.

M. KÖRÖSI, of Budapest, said :—As one of the delegates of the city of Budapest, I beg to be allowed to thank the Congress for the great honour it has done my city in accepting its invitation for 1894. The English Committee have given a difficult task to perform to all their successors, but especially to Hungary. You will not find in Budapest a civilization of centuries such as exists in this country. What one century slowly produced in our country was quickly swept away in the next century by the breaking in of barbaric hordes. But that which could not be swept away was the deep desire of the whole nation for freedom and progress. Hungary is proud to be able to state that the two oldest pillars of freedom in Europe, the two oldest Constitutions, are those of England and Hungary. For this reason the Hungarian nation could watch the most exposed part of European civilization, could defend for centuries with its blood and body the peace and the creed of Europe. Hungary obtained peace only two short centuries ago, and it is only since the still shorter period of 23 years that, thanks to the loyalty both of our glorious king and of the nation, they could recall to life the Constitution and the national life. Come and see how Hungarians defended the position which Providence and historical development had assigned to them. You will perhaps find some work done; but what is sure to be found is that the Congress will be received with open arms, with cordial affection, not only by the 500,000 inhabitants of the capital, but also by the millions of the nation.

Allow me to express in a few weak words also the best thanks for the great work done by the organisers of this Congress and for the kind and splendid reception with which we have been honoured. During the day we have worked in the Congress, in the evening we have enjoyed your hospitality in your homes, following thus the prescription of the German poet "*Tages Arbeit, Abends Gäste.*" And indeed, if anywhere, it is in England that one can learn how to cultivate the two phases of human life—work and pleasure; how to make life useful, and how to enjoy it. If we admire on the one hand your great institutions and improvements, we must on the other hand be impressed by the marks of kindness and benevolence which we have received from every side, and by the veritable torrent of hospitality which surrounded us. We ought to be deeply touched to see how heroes of science have left their pedestals to care for the daily wants of their guests. You may be sure that every one of us will keep the memory of this flattering reception for ever in his thankful heart, and will tell at home how we have been received by the great English nation.

Dr. POORE, the Hon. Sec.-General, read the following announcement from Dr. Körösi :—

"London, August 17, 1891.

"Wishing to commemorate the assistance which this Congress has been to the science of demography, and the honour it has bestowed on the city of Budapest, I have set aside the sum of 1,500*l.* to be offered as a prize for the best work on the object of demography and its progress in the chief countries of Europe and in the United States of America. The manuscript may be written in English, French, German, or Italian,

and is to be sent by the 1st of January, 1894, to the Permanent Committee of the Congress. The name of the author is to be sent with it, but in a sealed envelope. The paper will be examined by an international committee of five statisticians elected by the Permanent Committee, but not necessarily members of it. The prize will be awarded at the opening meeting of the next Congress of Hygiene and Demography at Budapest.

“JOSEPH KÖRÖSI,

“(Director of Municipal Statistics at Budapest).”

(Cheers.)

Dr. SELL (Germany) moved the following resolution:—

“That his Royal Highness the President be respectfully requested to convey to Her Majesty the Queen the dutiful thanks of this Congress for Her Majesty’s gracious act in becoming patron of the Congress, and for the magnificent hospitality shown by Her Majesty to members of the Congress during their sojourn in England.” (Cheers.)

He spoke as follows:—Der siebente internationale Congress für Hygiene und Demographie findet mit dem heutigen Tage seinen Abschluss.

Bei seiner Eröffnung hat unser hoher Präsident, Seine Königliche Hoheit der Prinz von Wales, die Hoffnung ausgesprochen, dass die Arbeiten desselben sich dem Wohle der Menschheit dienlich erweisen würden. Mit hoher Befriedigung können wir heute diesen Wunsch als in Erfüllung gegangen bezeichnen. Der persönliche Austausch der Erfahrungen und Meinungen so hervorragender Vertreter der Hygiene und Demographie, wie sie sich hier aus allen civilisirten Ländern zusammengefunden haben, muss Früchte zeitigen, welche der gesamten Menschheit zu Gute kommen. Wir Alle kehren mit einem reichen Schatz neuer Kenntnisse und Erfahrungen in die Heimath zurück, erfüllt von dem eifrigen Bestreben sie, Jeder in der ihm zugewiesenen Stellung, zur Erhaltung der Gesundheit, zur Abwehr der Krankheit, nützlich zu verwerthen.

Wir kehren zurück, dankerfüllt für die Bewohner dieses Landes, insbesondere unsere Fachgenossen, die Alles gethan haben, um uns den Aufenthalt hier zu einem unvergesslich schönen zu gestalten.

Dass dieses so sein konnte, dazu gehörte fürwahr seitens unserer Gastgeber ein nicht geringes Aufbieten aller ihrer Kräfte.

Welche Summe von Arbeit, welcher Aufwand an gutem Willen, Geduld, Selbstlosigkeit und Thatkraft hat über der Wirksamkeit Aller derer gewaltet, welchen die so schwierige Aufgabe der Organisation und der Vorarbeiten für den Congress zugefallen ist! Und in wie glänzender Weise sind sie Alle, trotz des kaum erwarteten Andranges der Besucher, ihrer schweren Aufgabe gerecht geworden! Allen voran als leuchtendes Beispiel unser hoher Präsident, Seine Königliche Hoheit der Prinz von Wales, der es Sieh, um den Arbeiten des Congresses aus nächster Nähe folgen zu können, sogar nicht hat nehmen lassen, Seinen Sommerurlaub herauszuschieben.

Die Gastfreundschaft, hier haben wir sie in wahrhaft idealer Weise kennen gelernt, bis hinaus zu der Allerhöchsten Beherrscherin dieses Landes, Ihrer Majestät der Allergnädigsten Königin, welche die hohe Gnade gehabt hat, eine Reihe von Vertretern des Congresses in Allerhöchst Ihrem Schlosse in Osborne persönlich empfangen zu wollen.

Diese Gnade steht in der Geschichte der Congressse für Hygiene und Demographie einzig da. Der Empfang in Osborne ist das vornehmste Glied in der Kette der Ereignisse, welche sich in den letzten Tagen hier abgespielt haben—er ist der Beweis dafür, dass die Allerhöchste Frau, welche schon früher das Patronat des Congresses zu übernehmen Allergnädigst geruht hatte, Allerhöchst Sich mit den Bestrebungen desselben Eins fühlt und diesem Gefühl auch öffentlich einen Ausdruck geben will. Darum gebührt auch Allerhöchst derselben in erster Linie unser ehrfurchtvollster Dank, und bin ich mir im vollsten Maasse der hohen Ehre bewusst, dass es mir vergönnt ist, Ihnen von dieser Stelle aus den Vorschlag zu machen, unsern hohen Präsidenten, Seine Königliche Hoheit den Prinzen von Wales, zu bitten, dass es Ihm gefallen möge, den Gefühlen unseres ehrerbietigsten Dankes bei Ihrer Majestät der Königin Ausdruck zu verleihen.

Dr. Kusy (Austria) in seconding the resolution said:—

Hochgeehrter Herr Präsident, geehrte Damen und Herren!

Als Vertreter der österreichischen Sanitätsverwaltung sei es mir gestattet, am Schlusse des Congresses einige Abschiedsworte vorzubringen, da gerade von meinem Heimatlande Oesterreich diesem Congressse ein besonderes Interesse entgegengebracht worden ist.

Wie das officiële Verzeichniss der Theilnehmer am Congressse nachweist, haben 4 k. k. Ministerien, 2 Landes- und 5 Stadtvertretungen, der Oberste Sanitätsrath und 9 Landessanitätsräthe, 7 Universitäten, 1 Landesschulrath, technische Hoch- und Fachschulen, 6 Handels- und Gewerbekammern und Gewerbevereine, 4 wissenschaftliche Vereine und 4 Humanitätsanstalten, zusammen 48 Behörden und Corporationen aus Oesterreich über 50 fachmännische Vertreter zur Betheiligung am siebenten internationalen hygienischen Congressse entsendet, denen sich noch eine Anzahl freiwilliger Theilnehmer angeschlossen hat.

Dieses ungewöhnliche Interesse unseres Landes an diesem Congressse entsprang einerseits dem Gefühle der Hochschätzung der grossartigen Entwicklung der Hygiene und des Sanitätswesens in England, andererseits dem Umstande, dass der vorletzte in Wien stattgefundene hygienische Congress nachhaltige und fruchtbare Erinnerungen zurückgelassen und eine sehr bemerkenswerthe Epoche eines lebhaften sanitären Fortschrittes in Oesterreich gefördert hat, durch welchen die Erkenntniss der Bedeutung der hygienischen Bestrebungen unserer Zeit einen mächtigen Antrieb erhielt.

In der kurzen Zeit von vier Jahren, welche die beiden letzten sich ebenbürtig aneinanderreihenden Congressse trennen, ist in Oesterreich der *Oberste Sanitätsrath*, diese fachwissenschaftliche beratende Körperschaft beim Ministerium des Innern als oberster Sanitätsbehörde in solcher Weise umgestaltet worden, dass die Fachmänner der verschiedensten bei Beurtheilung sanitärer Angelegenheiten in Betracht kom-

menden Wissenszweige in ihm vertreten, die Heranziehung der hervorragendsten Capacitäten und wissenschaftlicher Institute des Reiches zur Lösung fachlicher Fragen ermöglicht, eine kräftige Initiative in Sanitäts-Angelegenheiten gesichert und die Mittel zur Durchführung der scientificen Aufgaben des Obersten Sanitätsrathes geboten sind. Seit dieser Neuorganisation veröffentlicht der Oberste Sanitätsrath regelmässige *wöchentliche Publicationen*: das bereits im dritten Jahrgange erscheinende "*Oesterreichische Sanitätswesen*," durch welches Blatt nicht blos alle Sanitätsorgane des Reiches in authentischer Weise über laufende Sanitäts-Angelegenheiten informirt werden, sondern auch der geistige internationale Verkehr mit den Sanitätsverwaltungen aller Staaten unterhalten wird, bezüglich welcher ein umfassender *Austausch der officiellen hygienischen Publicationen* eingeleitet ist.

In der *österreichischen Sanitätsverwaltung* selbst hat in den gedachten vier Jahren eine *Vermehrung der Staatsärzte und Staatsthierärzte* um mehr als 25 Percent stattgefunden, so dass fast jedem Chef eines politischen Amtsbezirkes ein ärztlicher Sanitäts- oder ein thierärztlicher Veterinär-Beamter zur Seite steht.

Die *Organisation des Sanitätsdienstes in den Gemeinden* unter Anstellung eigener Amtsärzte für Gemeinden und Gemeindebezirke, welche zur Zeit des Wiener hygienischen Congresses erst in fünf der im österreichischen Reichsrathe vertretenen Königreiche und Länder angebahnt war, ist seither in sechs weiteren Ländern durch Landesgesetze geregelt und in weiteren drei Ländern durch Landtagsbeschlüsse facultativ angebahnt worden, so dass in kurzer Zeit die Organisation des Gemeinde-Sanitätsdienstes in allen Gemeinden des ganzen Reiches eine vollendete Thatsache sein wird.

In Bezug auf die *Bekämpfung der Epidemien* ist eine strenge und genaue *Evidenzhaltung* unter Zugrundelegung einer regelmässigen wöchentlichen Urberichterstattung nach erfolgter *Anzeige des ersten Infectionsfalles*, die für Arzt und Haushaltungsvorstand obligatorisch ist, eingeführt worden, wodurch die Uebersicht über den Stand jeder Art von Infectionskrankheiten im Reiche jederzeit ermöglicht ist. Das Verfahren zur *Tilgung von Infectionskrankheiten* ist durch exacte Vorschriften geregelt, in welchen auf die Verhütung der Entstehung von Epidemien zur *Tilgung der Einzel-Infection*, durch Isolirung und Desinfection das Hauptgewicht gelegt wird. Auch wurde der *Aufstellung von Dampf-Desinfections-Apparaten* eine möglichst grosse Verbreitung gegeben, so dass jetzt schon alle grossen Eisenbahnstationen, viele Spitäler, Gefangenhäuser, Städte, theilweise auch Landgemeinden mit solchen Apparaten versehen sind.

Parallel mit diesen Fortschritten hat die *Errichtung von neuen Kranken- und Humanitätsanstalten und die Erweiterung und Verbesserung der bestehenden* einen sehr bedeutenden Aufschwung genommen, und ist die *sanitäre Beaufsichtigung der Gemeinden* behufs Abstellung sanitärer Uebelstände in jeder Beziehung eine wirksamere geworden.

Als Effect der Gesamtheit dieser und anderer Fortschritte, welche dem sechsten internationalen hygienischen Congress in Wien gefolgt

sind, stellt sich dar, dass die *allgemeine Mortalität* von 3·2 Percent im Jahre 1886 auf 2·8 Percent im Jahre 1889 herabgedrückt wurde.

Wenn auch diese segensreiche sanitäre Bewegung, welche in Oesterreich seit dem vorletzten internationalen hygienischen Congress in Wien eingetreten ist, nicht ausschliesslich als Wirkung desselben bezeichnet werden kann und auch anderen Factoren zuzuschreiben ist, so hat die Abhaltung desselben zur Hervorbringung dieser *fortschrittlichen sanitären Bewegung* jedenfalls wesentlich beigetragen. Dies berechtigt aber zugleich zu der zuversichtlichen Erwartung, dass auch der eben beendete, so glauzvoll verlaufene siebente Congress für Hygiene und Demographie segensreiche Früchte tragen und strahlende hygienische Erleuchtung von hier aus in alle Länder senden werde.

Die Fülle des Berathungsmaterials war so grossartig, die Gastfreundschaft, mit der alle Delegirten auf englischem Boden aufgenommen und beim Congress festgehalten wurden, so herzlich und unvergleichlich, dass die Congressstage Jedem unvergesslich bleiben werden.

Namens der k. k. Behörden und aller jener Corporationen, welche Delegirte zu diesem Friedensfeste der hygienischen Wissenschaften aus Oesterreich gesendet haben, erstatte ich daher den wärmsten Dank für alle uns gespendeten geistigen und körperlichen Genüsse, und bitte ich den hochverehrten Herrn Vorsitzenden, den Ausdruck desselben Ihrer Majestät der erhabenen Protectorin und Sr. königl. Hoheit dem Präsidenten Prinzen von Wales, ferner dem Oberhaupte dieser ersten Weltstadt, sowie allen anderen Gönnern des Congresses vermitteln, selbst jedoch für seine persönliche, über alle Anerkennung erhabene Mühewaltung den Ausdruck der aufrichtigsten Bewunderung und Hochschätzung entgegennehmen zu wollen.

Lieut.-Col. WOODHULL (America) in supporting the resolution said:—Mr. President, it is with embarrassment fully equal to my appreciation of the honour that I find myself supporting this motion, to which everyone present spontaneously responds. Nor can I claim any presumptive right to represent the United States, but I know what I feel all my American colleagues also feel.

The *Saturday Review*, which it becomes us to read, if only for our sins, remarks, "That the many thousand of estimable persons from all the ends of the earth who attend the Congress, will, no doubt, be pleased with themselves, and happy in the occasion," and then the *Saturday Review*, as usual, proceeds to sneer. A friend who used to describe a certain class of men as those who go on "accumulating ignorance," was, I think, a prophet as well as an historian.

Now, whether the work done in the past week was not work, and whether the estimable persons, of whom, Mr. President, you and I, and the rest of us here are a part, have created for themselves a fool's paradise in science, I will not pretend to say. I only know that for myself I feel like a half-bushel measure into which it has been attempted to put a bushel.

But a more sacred subject just now than that of science is before me. It is to attempt to express our sense of London hospitality. It has been

a matter of regret to the American delegates that none of us has been authorised to invite formally and officially the next Congress to our shores ; and we feel as you, Sir, must realise, that so weighty a charge may not be undertaken by anyone on personal responsibility alone. We sincerely hope, however, that the day is not far distant when our turn may come in receiving you, not in the magnificent way that this treasure-house of the world has enabled you to receive us, but with as genuine and hearty, if not as grand, a welcome for all. For Italy and Spain, races who brought our new world into the light ; for the French who explored it, and have left their colonies within, and on our borders ; for the Teutons, who have done so much to make us strong ; for the Northmen, of whom, indeed, we are an ancient inheritance ; and for the British, who are flesh of our flesh !

As to what has been done for us here, excepting as an attempt to express personal feelings, it would be superfluous to add words to the eloquence of others. We from across the water, who have not been allowed to feel ourselves strangers, not to say foreigners, among you, very deeply appreciate the hospitality and welcome we have received. The gracious lady, whose purity and dignity of life you rejoice in, has, by those same qualities extended her empire of love and respect over our citizens, and her personal welcome most auspiciously crowned the hospitality with which everywhere and by everyone we have been received. The societies that by their preliminary action made this meeting of the Congress possible, the executive gentlemen, of whom, Sir, you are the honoured head, who have given vitality to the invitation and have conducted the Congress so successfully, and our hospitable entertainers, public and private, who have borne us down with their pleasant burdens, we shall always hold in grateful and loving remembrance.

Dr. BROUARDEL (France) also supported the resolution, which was unanimously agreed to, amid loud cheers.

His Excellency M. GENNADIUS, the Minister for Greece, moved the following resolution :—

“ That the best thanks of the Congress be dutifully tendered to his Royal Highness the Prince of Wales, the President of the Congress, for the untiring interest which his Royal Highness has manifested in the Congress and to which the success of the Congress is to be largely attributed.” (Hear, hear.)

He said that the success of the Congress had been largely due to the interest which his Royal Highness the Prince of Wales had taken in it. By some sort of magic, success was made to attend on every movement with which his Royal Highness identified himself. That success was due not to the exalted position of his Royal Highness, but to the assiduous and hearty manner in which he laboured to secure the advancement of every movement that was intended to confer benefits upon large classes of people. (Hear, hear.)

M. BELMÁS (Spain) seconded the resolution. He said :—Mesdames et Messieurs,—J'avais déjà l'honneur de connaître ce pays anglais,

intéressant et digne d'être étudié, duquel j'ai des souvenirs que je n'oublierai jamais. Mais depuis l'occasion du Congrès d'Hygiène de 1891 mon admiration pour le peuple anglais est plus grande, parce que j'ai été témoin de vos vifs sentiments de confraternité et d'hospitalité vers les étrangers, et de la grande importance de vos travaux en matière d'Hygiène qui font connaître le haut degré de civilisation de cette Angleterre que tous les peuples du monde admirent.

En vous exprimant ma reconnaissance, je vous parle au nom de mon pays et des Espagnols, de ce peuple mal connu en général et dont les travaux pour la civilisation et dont l'enthousiasme pour l'avancement sont plus grands que la généralité du monde ne croit.

Vous avez la preuve dans les lois sanitaires du pays et dans les conclusions que vous avez bien voulu approuver aujourd'hui, même par acclamation, dans lesquelles vous avez donné un vœu en faveur des travaux présentés par mon compatriote le docteur Vilanova.

Au nom de cet éminent docteur, au nom de tous les Espagnols qui ont eu l'honneur de venir à ce Congrès, nous vous remercions de cette preuve d'estime pour M. Vilanova dont la gloire est la nôtre.

Avant de finir ces petits mots, permettez-moi de dire que je regrette bien que le livre du Congrès ne soit pas écrit en français et en anglais. La raison de mon regret est bien fondée. Nous voulons la propagation de l'hygiène, nous voulons que les travaux du Congrès soient connus par tout le monde pour que tout le monde profite de vos études. Et bien, si nous le voulons bien nous devons faire tous les sacrifices possibles pour l'obtenir, et ce sacrifice doit être la traduction ou publication en français du livre du Congrès de 1891.

Croyez bien que si l'on ne fait pas comme ça, la moitié du monde qui pourrait profiter de vos études, se trouvera dans l'impossibilité d'obtenir les fruits du Congrès.

Après cette manifestation, je vous demande pardon d'avoir distrait votre attention pendant quelques minutes, et je suis l'interprète des sentiments de mon cher pays en dirigeant une respectueuse salutation à Sa Majesté la Reine d'Angleterre, à Son Altesse le Prince de Galles, à l'éminent Président du Congrès, gloire de sa patrie, et à tous les Anglais qui nous ont fait l'honneur de nous recevoir avec un accueil, une hospitalité et un sentiment d'amitié que jamais de ma vie je n'oublierai.

Dr. LOUIS CSATÁRY DE CSATÁR (Hungary) supported the resolution, and spoke as follows:—Au nom du Conseil général d'hygiène publique de la Hongrie, je remercie Son Altesse Impériale et Royale le Prince de Galles, notre illustre Président, pour sa participation aux œuvres de l'humanité, et spécialement pour celles de notre Congrès; et je suis d'avis, que nous remplissons notre devoir, en votant avec unanimité nos remerciements à Son Altesse Royale.

Dr. DA SILVA AMADO (Portugal) also supported the resolution.

Professor VAN OVERBEEK DE MEYER (Holland) said:—As a delegate of the Government of the Netherlands, in the name of that Government, and also of my co-delegates and my countrymen who have attended the Congress I beg to tender respectfully to Her Majesty the Queen, to their Royal Highnesses the Prince and Princess of Wales, and

to the other members of the Royal Family our grateful thanks for the gracious patronage of this Congress.

We beg to thank the organising committee, the honourable chairman, and the excellent secretaries, for all the work done at the Congress.

We are greatly indebted to all those who have been good enough to make our reception such a splendid one.

We also thank the ladies' committee which has been so kind to us and our ladies, and which has done us the special favour of showing us the treasures of the true English family life.

There is only one thing greater than your splendid hospitality, it is our gratitude!

Dr. KLAS LINROTH (Sweden) said:—Mr. Chairman: In the name of the Swedes at the Congress, I have the honour to offer our best thanks to the English authorities, to our English colleagues, and to all who have in these days—so abounding in good lectures and instructive excursions—facilitated our studies, and received us with this splendid hospitality which can only be found in England.

Dr. PROSPERO SONSINO (Italy) also supported the resolution as follows:—Non sono rappresentante di nessuno, ma come uomo, come umile cultore dell'igiene e come italiano, sento il dovere d'agginugere la mia parola per ringraziare il cordiale ricevimento avuto in questo paese ospitale durante il vostro Congresso e per salutare l'Inghilterra (old England) che si può dire la nazione che ha adottato il migliore e il più utile indirizzo dell'igiene. Desidero pure di esprimere il desiderio che nel futuro Congresso possa essere adottato l'Italiano come una delle lingue ufficiali.

Dr. BENTZEN (Norway) followed, and said:—After so many excellent speakers, I can say nothing that they have not said better than I am able to, but I believe in the truth of this little verse I read this morning:—

Speak from the heart! all else is incomplete;

Speak to the heart, for that alone is sweet;

Weak words are mighty that with heart-blood beat.

And now I simply want to thank England and its great people for every favour shown this Congress, to thank it out of a heart that beats for the English nation and its work in the service of humanity.

The resolution was then adopted with cheers:—

Sir OWEN BURNE (London) moved the following resolution:—

“That the best thanks of the Congress be tendered to the Secretary of State for India and the Viceroy of India for the interest which they have manifested in the Congress, and to their Highnesses the Gaekwar of Baroda, G.C.S.I., the Maharajah of Bhavnagar, G.C.S.I., the Maharajah of Cooch Behar, G.C.I.E., the Nizam of Hyderabad, G.C.S.I., the Maharajah of Jeypore, G.C.S.I., the Maharajah of Mysore, G.C.S.I., the Maharajah of Travancore, G.C.S.I., and the Maharajah of Vizianagram, K.C.I.E.”

He said that it gave him much satisfaction to submit this resolution to the meeting. India had taken a warm interest in the Congress, and

she had been well repaid by the important subjects discussed in the course of its proceedings, and by the valuable and exhaustive papers read by Surgeon-General Sir William Moore and others before it. He ventured to bear personal testimony to the earnest desire of the Secretary of State for India (Viscount Cross) and of the Viceroy of India (Marquis of Lansdowne) to do their utmost to further the objects of the Congress, and he felt sure that the meeting would be unanimous in agreeing that they, and the able officials associated with them, were entitled to an expression of their cordial thanks. It had been very gratifying to all who were interested in India to see how generously the native princes and chiefs, whose names were mentioned in the resolution now before the meeting, had come forward in aid of its objects, and how efficiently the European and native delegates appointed to represent that great dependency of the Crown had carried out their mission. He could not conclude without specially alluding to the services of their honorary secretary, Mr. Samuel Digby, to whose unwearied efforts were due the success of their proceedings in the Indian section of the Congress, and the comparative ease with which the special Indian Committee, of which he (Sir Owen Burne) had been the humble chairman, had entered on its duties and completed its work.

SURGEON-GENERAL CORNISH, in seconding the resolution, expressed the opinion that all departments of the administration of the Indian Empire, from the Viceroy's downwards, had worked cordially towards making the Congress meeting a success. The great feudatory princes and natives of wealth and influence had most generously responded to the appeal for pecuniary help towards the expenses of the Congress.

He might mention that as regards the sum received for defraying the expenses of the Congress, the Indian contributions amounted to about one-fifth of the whole. The interest manifested by the Indian princes seemed to point to the hopeful progress of sanitary work in those parts of the Indian Empire not directly under the administration of the Government of India, while the officials of the Indian Government were all deeply impressed with the necessity of attention to sanitary matters in their several spheres of duty.

The resolution was carried unanimously.

Dr. G. BUCHANAN (London) moved the following resolution:—

“This Congress records its grateful sense of the support which it has received from foreign Governments, and most especially the Congress thanks the Danish Government for its generous and important contribution to the literature of demography.”

Denmark had presented to the Congress, by its chief delegate, Dr. Julius Lehmann of Copenhagen, for distribution among its members, 1,700 copies of a large work (474 pp., royal octavo), entitled “*Denmark, its Medical Organisation, Hygiene, and Demography.*”

Dr. LOUIS SAMBON (Naples) seconded the resolution, and said:—I am happy to second Dr. Buchanan's vote of thanks to foreign Governments, and most especially to the Danish Government, for its splendid publication so lavishly dispensed to the members of the Congress.

Professor Sonsino, of Pisa, has addressed to you the congratulations and thanks of Italy for the success of this Congress, and the sympathy and hospitality which has been so largely bestowed on us. Well, allow me to second also this vote of thanks for the southern part of Italy, of which I have the honour of being a delegate.

The Seventh International Congress of Hygiene and Demography will certainly occupy an eminent place in the history of Congresses for the important facts it has brought before science; but none has as yet been so successful in bringing before the general public the principles of hygiene, which is the most important factor in the prevention of disease and misery and degeneration, and I think that I may express my admiration for the splendid way in which your press has contributed to this success, and to this highly humanitarian mission of popularising this science.

Dr. LEHMANN (Denmark) responded as follows:—Having the honour of speaking here as a representative of the northern insular kingdom, I call to your remembrance the manifold correlations that have existed between Great Britain and Denmark. In olden times my countrymen went fighting, and conquering, to England. Later on, both nations shed their blood under the ramparts of Copenhagen and on its roads. Now-a-days friendship connects them. England has transplanted the most beautiful rose of Denmark into its own soil, and when the descendants of the Vikings now go to England, it is only to make peaceable conquests, like all other nations, competing for a share in the intellectual treasures in which Great Britain so eminently abounds. On the present occasion we have also had the good fortune to draw from this inexhaustible source, and, in the name of my countrymen, I thank all who have lent us a helping hand, and who have done this work with so great a kindness and hospitality. May Great Britain always be the glittering star on the firmament of hygiene to which we all look up!

The resolution was passed unanimously.

Sir DOUGLAS GALTON, chairman, proposed a vote of thanks to the learned societies, corporations, and private persons who had assisted the Congress by the loan of buildings, by hospitality, and in other ways.

Dr. POORE, in reading the following list of bodies and individuals who had offered hospitality to members of the Congress, stated that, long as this list was, he feared that some names might have been omitted. If so, he asked the meeting to believe that such omission was purely accidental:—

The Lord Mayor and Corporation of the City of London, with special thanks to Mr. Alderman Knill, the Chairman of the Committee appointed by the Common Council to carry out the arrangements for the *Conversazione* at the Guildhall.

The President and Fellows of the Royal College of Physicians.

The President and Council of the Royal College of Surgeons.

The President and Fellows of the Public Health Medical Society.

The Society of Medical Officers of Health.

The Fellows Club of the Royal College of Physicians.

The County Councils of London, Northumberland, and the West Riding of Yorkshire.
The Senate of the University of London, The Royal Society, The Society of Antiquaries, The Linnæan, The Royal Astronomical, The Chemical, and the Geographical Societies, and The Royal School of Mines.
The Metropolitan Asylums Board.
The Royal Medical and Chirurgical Society.
The National Health Society.
The Sanitary Institute.
Mrs. Priestley and the ladies of The Ladies' Reception Committee.
The Vice-Chancellor and Senate of the University of Cambridge.
The Cremation Society of England.
The Royal Botanic Society.
The Zoological Society.
The Council of the Royal Naval Exhibition.
The Thames Ironworks Company.
Surgeon-General Madden and the Officers of the Army Medical Staff.
The Refuse Disposal Company.
The Corporations of Aberdeen, Birmingham, Bournemouth, Brighton, Burslem, Croydon, Derby, Dover, Dublin, Eastbourne, Folkestone, Hanley, Hereford, Leicester, Liverpool, Manchester, Nairn, Nottingham, Portsmouth, Ramsgate, Salisbury, Selkirk, Southampton, Stafford, Stratford-on-Avon, Tynemouth, Wigan, Wilton, Wolverhampton.
The Vestries of Marylebone, Paddington, St. George's, Hanover Square, St. James's, Westminster, St. Mary's, Newington, Mile End Old Town, and St. Pancras.
The Boards of Works of Holborn, St. Giles's, St. Olave's, Friern Barnet, and Ealing.
The Governor of the Bank of England.
The Constable of the Tower.
The Director of Kew Gardens.
The Secretary of State for War.
The Home Secretary.
The Duke of Northumberland.
The Duke of Sutherland.
The Duke of Wellington.
The Duke of Westminster.
The Earl of Ellesmere.
The Earl of Dudley.
Sir Andrew Clark, Bart., M.D.
The Baroness and Mr. Burdett-Confts.
Lord and Lady Wantage.
Sir Spencer Wells, Bart.
Sir Edwin Saunders.
Sir Donald Currie.
The Messrs. Agnew.

Mr. Blundell Maple, M.P.

Dr. George Buchanan.

Dr. Langdon Down.

The Dean of St. Pauls.

Archdeacon Farrar.

J. Walter, Esq., M.P.

Mr. T. W. Cutler, F.R.I.B.A. (the designer of the Congress Badge).

The Director of the German Exhibition.

The Lambeth, Grand Junction, Vauxhall, and East London Water Companies.

The Gas Light and Coke Company.

The Authorities of King's College, Guy's, St. Bartholomew's, St. Thomas's, the London, and Bethlehem Hospitals, the Hanwell Asylum, the Royal Normal School for the Blind, and the Athenæum, Reform, National Liberal, and Northbrook Clubs.

Professor F. VON JURASCHEK, who seconded the resolution, spoke to the following effect:—*Er entschuldigt sich, dass er noch das Wort ergreife, nachdem schon so vielfach gedankt wurde, so dass ihm kaum etwas Neues zu sagen übrig bleibe; nachdem nicht bloss dem Prinzen von Wales, dem Lord Mayor von London, sondern auch den verschiedenen Gesellschaftsgebern, von denen eine genaue Liste eben vorgelesen wurde, der Dank ausgesprochen worden ist, und nachdem insbesondere sein Connationaler Hofrath Dr. von Kusy eine statistische Aufzählung der anwesenden Oesterreicher gegeben habe, woraus ersichtlich wurde, wie sehr man sich in seinem Heimathslande drängte, den Congress zu besuchen. Wenn er nun doch spreche, so geschähe es nur, "weil man nicht oft genug sagen könne, wie sehr wir entzückt sind von dem lebenswürdigen und prächtigen Empfang, der uns bereitet wurde, nicht nur vom Lord Mayor, wo derselbe ja über alles Mass grossartig war, sondern überhaupt von der Bevölkerung Londons, von dem grossen englischen Volke! Das Congresszeichen," fuhr der Redner fort, "war nicht nur eine Einlasskarte an jedem Orte, sondern ein Schlüssel zum Herzen jedermanns! Wer jenes Zeichen trug, mochte sicher sein, dass er zu jeder zeit hülfreiches Entgegenkommen finden werde." Der Redner führt sodann aus, wie vielfach ein solches insbesondere ihm und seinen Genossen aus Oesterreich und Deutschland bewiesen wurde, und glaubt darin einen untrüglichen Beweis zu erblicken für die tiefe Uebereinstimmung der englischen Nation mit dem Volke von Oesterreich und von Deutschland. Er wünscht im Anschlusse hieran, dass diese Uebereinstimmung sich erhalten und festigen möge, denn sie werde der Welt den Frieden sichern für alle Zeit. "Die Aufnahme, die wir hier gefunden," schliesst der Redner, "hat uns diese Uebereinstimmung erst zur vollen Erkenntniss gebracht; desshalb gebührt der Gastfreundschaft der Bevölkerung Londons unser Aller herzlichster Dank."*

M. STEKOULIS (Netherlands) followed in support, and said:—*Je suis heureux de pouvoir répondre à l'invitation du Président, afin d'exprimer au nom de mes collègues et en mon nom notre profonde reconnaissance*

pour les honneurs dont nous avons été l'objet pendant la durée des travaux du Congrès. La ville, les comités des sociétés philanthropiques, les corps savants, les hommes illustres de ce grand pays et notamment l'hon. Président du Congrès, Sir Douglas Galton, ainsi que l'hon. Secrétaire général pour l'étranger, Prof. Corfield, ont rivalisé d'empressement pour rendre des plus agréables et des plus instructifs notre séjour à Londres. Nous devons une mention de reconnaissance toute spéciale à ces nobles dames, qui ont bien voulu nous offrir leur gracieuse hospitalité.

Nous connaissons de réputation la grandeur britannique, mais il nous fallait passer quelques jours ici pour l'apprécier à sa juste valeur.

Nous garderons un souvenir ineffaçable de notre visite dans cette métropole et nous vous prions d'accepter tous nos remerciements.

Professor BÄUMLER (Freiburg i. B.), also spoke in support as follows :—On looking round this room, I need not remind you that special charms have graced the gatherings of this Congress, more even than on former similar occasions the ladies of this hospitable city have helped to further the objects for which we have, from all parts of the world, come together in such great numbers. To those ladies is due no small share of the immediate success and of the lasting effects of this Congress. The hospitality which we met with on all sides was in quite a special manner bestowed on the foreign ladies; and while we were occupied in the more serious business of the Congress, our ladies were taken care of by the ladies' committee, they were shown places and objects of interest, they were by members of that committee taken to their houses, where, I have no doubt, they learned many an useful lesson in domestic hygiene. And when we had finished our labours in the sectional meetings, we were called to join the ladies again in those magnificent social gatherings which were so prominent a feature of this Congress. We were invited to halls replete with objects of art and industry, with collections of scientific or historical interest, halls beaming with light and splendour, and filled with the lively throng of the members of the Congress and their amiable hosts. We were taken to beautiful gardens where we could admire the peculiar charms of English landscape, and where, under shadowy trees and on green lawns, new acquaintances were formed and old friendships renewed. And, when tired from hard work in the sections or eager to escape for a while the noise and turmoil of this busy city, we could retreat for an hour to one of those splendid mansions which were so liberally thrown open to the members of the Congress, and where we could refresh ourselves in viewing rare paintings of great masters and other objects of art.

But it would be impossible, at this moment, to recall from the depths of our memories all that had been new and striking to us, and that had called forth in us feelings of admiration and gratitude. We must allow these multifarious impressions time to settle and to become part of our inner life, before we can quite realise their importance. But, long after we have returned to our own houses and our own spheres of work, the images of those impressions will rise up again, and of all that we have seen and learned and admired during this stay in London, the social

gatherings will not be the least memorable, nor the least pleasing remembrances. It was they principally that helped to bring those that had come from foreign parts into contact with English life and manners, and to make English men and women, and English ways, known to, and appreciated by them. Our sincerest thanks are, therefore, due to all those who have so amiably and so magnificently contributed to the success of this Congress; and in publicly bearing testimony to this, I beg most heartily to second this resolution.

Dr. IBRAHIM PACHA (Egypt) supported the resolution in the following speech:—As delegate of the Egyptian Government, I have the honour to offer my sincere gratitude to Her Majesty the gracious Queen, and to H.R.H. the Prince of Wales. I thank the English authorities for the hearty reception I have met with here, and I thank particularly the honoured chairman, Sir Douglas Galton, and the honoured foreign secretary, Professor Corfield, also my eminent English colleagues, and the English public in general for their hospitality and welcome. The fact is, that with our title of member of this Congress, all doors have been open to us, and we have been received cordially in every establishment, and shown most readily anything of interest. Our leisure time even has been filled up with festivities and instructive excursions.

Now, ladies and gentlemen, allow me to submit to you a question of great hygienic importance concerning Egypt. Egypt, in these last years under English sway, has advanced decidedly in the way of progress, and has already achieved a great many reforms in the sanitary department. This fact cannot be indifferent to Europe, for Egypt is on the highway between the Occident and the Orient. The multitude of Europeans and tourists that cross Egypt every year to and from the Orient, are naturally interested in the sanitary conditions of my country, and Egypt may check most epidemics from crossing the Mediterranean. In a word, Egypt is worth your helping her in her sanitary reforms; the more so as she is ready to pay all the expenses herself, and only asks the great Powers that keep the strings of her purse to authorise her sanitary expenses. The capital of Egypt, Cairo, in fact, is deprived of sewers. The urgency of building some was demonstrated by Mr. Latham and others, for the benefit of all the foreign and native inhabitants.

The amount of the expenses is rather high, I admit, but Egypt can now easily afford it. All of you, most honourable colleagues, understand the hygienic importance of a system of sewerage in a large town like Cairo, and I therefore beg each one of you to come to our help and let his voice be heard in his respective government in order that through your authority and advice all the great Powers may grant their consent, and allow to build the sewers with her own money.

I conclude, ladies and gentlemen, by reiterating my thanks for the kind attention and the signs of approval you have bestowed on my address.

A delegate from Moscow, and Mdlle. Rose Lyon, Paris, also supported the resolution, which was carried amid cheers.

Dr. GEORG VON MAYR (Munich), in proposing a vote of thanks to the Organizing Committee, said:—*Je propose de voter des remerciements*

les plus sincères à Monsieur le Président du Comité d'organisation et à Messieurs les Secrétaires. Vu la quantité énorme des questions soulevées à ce Congrès, ç'a été une tâche extrêmement difficile à remplir que de préparer d'une manière utile nos discussions. Cette tâche a été remplie admirablement par le travail infatigable du Comité d'organisation, et c'est à juste titre, que nous y rendons nos remerciements les plus sincères. Puisque j'ai la parole, j'y tiens aussi à exprimer mes remerciements à Monsieur le Dr. Ogle pour les bonnes paroles qu'il a bien voulu prononcer sur les études démographiques. Nous autres démographes nous sommes —surtout ici à Londres—peu nombreux en comparaison de Messieurs les hygiénistes et c'est par cela que la masse des intérêts hygiéniques paraît quelquefois un peu opprimer les intérêts démographiques. Autant de plus il a été d'un haut mérite que M. Ogle ait bien voulu tout spécialement mentionner les travaux démographiques et faire voir de cette manière, quelle part active ils ont prise aux travaux de ce Congrès, si splendidement réussi.

Si le succès du Congrès a été complet, il faut toujours y penser que la préparation tant scientifique qu'extérieure est due aux soins incessants de notre Comité d'organisation auquel nous rendons la plus profonde reconnaissance.

Professor J. FÉLIX (Bucarest), in seconding the resolution, said : —Avant de nous séparer il nous reste un devoir à remplir, celui d'exprimer notre reconnaissance respectueuse à l'Auguste Protectrice du Congrès, S. M. la Reine, à l'illustre Président du Congrès, S. A. R. le Prince de Galles, au Bureau et au Comité d'organisation du Congrès, et en spéciale au vénérable Président du Comité Sir Douglas Galton, et à l'infatigable Secrétaire étranger, Prof. Corfield, à tous ces "gentlemen" hospitaliers qui ont en l'amabilité de nous recevoir chez eux, aux autorités, aux administrations, qui nous ont facilité l'étude des institutions sanitaires de ce pays admirable.

Le Congrès a pleinement réussi : nous partons tous satisfaits des discussions instructives que nous avons entendues, des impulsions que nous avons reçues pour de nouveaux travaux par le contact avec les princes de la science, enrichis d'expérience et pleins de respect pour les institutions de cette nation de "gentlemen," enchantés de l'hospitalité anglaise proverbiale.

Nous prions donc nos chers collègues de la Grande-Bretagne de recevoir nos remerciements cordiaux, et d'excuser si nos paroles sont une expression trop faible de nos sentiments à nous tous.

Dr. HEWITT (Minnesota, U.S.A.), Dr. KITASATO (Japan), and Dr. SIMPSON (Calcutta), followed in support, the last-named saying :—In the absence of Mr. Bhownaggee, I have the honour of thanking the members of the executive, and especially Mr. S. Digby, for the hearty reception which has been accorded to the Indian delegates. Mr. Digby has been indefatigable in his labours, and I am sure it must be a source of satisfaction to him to know that we have benefited much by our visit. The delegates have heard discussed and have seen many things that are entirely new to them; they have learnt the wide range included in the term sanitary science, and they have also learnt what the application

of the principles of sanitary science has done and can do for the amelioration of those conditions of ill-health which, up to recent years, have been considered inevitable and unpreventible. The Congress has also been the means of showing that sanitary ideas are gaining ground in India, and that an interest is being aroused in the subject. At former Congresses the Government were accustomed to send a few accredited delegates, but at this one there have been present representatives from the Native States, from Indian Corporations, and from Chambers of Commerce. The Indian Medical Service in India, like the army surgeons at home, have been the pioneers in sanitary measures, and this awakening must indeed be a source of great gratification to them, as it is to myself, who have at times felt much disheartened, and have occasionally been inclined to think that efforts in the cause of sanitation were fruitless and in vain. This seems, however, to have magically changed, and I look forward to our next International Congress with the feeling that India will take a prominent share in its proceedings. No country in the world presents such an array of formidable and preventible diseases to be battled against as India. These diseases, however, need to be studied; and, to my mind, it is on the scientific spirit and enthusiasm fostered and kindled in the young men of India who attend the future meetings of the Congress that we must rely for the investigation and handling of these diseases; and in time, perhaps, when the East has learnt much from the West in the application of sanitary science, the East may teach some new things to the West. The fact that the Queen-Empress has taken such an interest in the Congress, and in its Indian delegates, will have an immense influence on the Indian people. That the Empress, whom they look up to with so much reverence, should be interested in their health, is sufficient for them also to take an interest in the matter. I may add, in conclusion, that I should not have been present here to-day had not the Prince of Wales been President of the Congress. This fact alone helped to turn the scale as to whether a delegate should be sent or not from Calcutta.

The CHAIRMAN proposed a vote of thanks to the officers of the Congress, whose unsparing work and indefatigable energy had so largely conduced to the success of the undertaking. He coupled with the vote the names of Dr. G. V. Poore, the hon. secretary-general, Professor W. H. Corfield, the hon. foreign secretary, Mr. Malcolm Morris, the hon. secretary of the reception committee, and Mr. S. Digby, the honorary secretary of the Indian committee.

The vote was warmly received and was unanimously adopted.

Dr. G. V. POORE, the hon. secretary-general, in responding, said:—That it was not without a lively emotion that he found himself at the end of something like eight months' continuous labour in connexion with the Congress. The work of organising such a Congress as this was no light labour, and it would have been impossible without the most cordial co-operation of those with whom he had been associated. He begged to be allowed to say how deeply sensible he was of the kindness and consideration which had been manifested towards him by the presidents and secretaries of the various sections, between whom and himself

nothing to cause the least friction had at any time arisen. To Dr. Corfield, the Honorary Foreign Secretary, to Mr. Digby, the Secretary for India, and especially to Mr. Malcolm Morris, the indefatigable Secretary of the Reception Committee, his acknowledgments were cordially tendered. His work had largely consisted in acting as the co-ordinating centre of 35 honorary secretaries, and the success of the Congress was entirely due to the fact that all had worked harmoniously and loyally together for the common good. He must not forget to mention the good work done by the assistant secretaries, Dr. Brock and Dr. Moline. To the latter, who had acted as financial secretary, he felt that the Congress was largely indebted. The collecting and spending of some 8,000*l.* was no light matter, and the keeping of the accounts demanded no ordinary care and attention. There were others to whom his thanks were due, and to none more than to Mr. A. W. Whalley, who had acted as assistant to the Secretary-General, and to Mr. George Cooper, the Assistant Financial Secretary, who had shown on more than one occasion his readiness to do anything which was asked of him for the good of the Congress. He must not forget to mention Mr. Taekley and the staff of 23 Post Office sorters, who had been on duty in the reception room during the week. Their work had been very hard and very harassing, but it had been done with a will and with good temper, which never failed. To Mr. Broughton, the superintendent of meeting rooms, and the staff of some 25 commissionaires, and others who worked under him, he begged also to tender his thanks. During the session of the Congress nearly 100 persons, paid or honorary had been kept steadily at work, and without the greatest forbearance and good-will the work could not have been done. (Hear, hear.)

Professor CORFIELD, in responding, said that he quite agreed with Dr. Poore, that the organising of such a Congress was no light matter, as he had himself been working at it since 1886; and he wished especially to thank Dr. Brock and Dr. Moline for the great assistance they had given him and his former co-secretary, Mr. Shirley Murphy, in forming the large and influential general committee, and in obtaining the appointment of delegates from various institutions all over the country, as well as from the colonies, and from foreign countries. His best thanks were also due to Mr. Bellinfante, the assistant foreign secretary, and to Dr. Michels, for their valuable assistance in connexion with the foreign correspondence. The success of the foreign work—the essential part of an International Congress—was due, in the first place, to the gracious patronage of Her Majesty the Queen; in the next to the fact that His Royal Highness the Prince of Wales kindly accepted the post of effective president, and allowed his name to be used in connexion with the letters sent to Foreign Governments; then to the Marquis of Salisbury, the Foreign Minister, for affording facilities for the transmission of all official letters through the Foreign Office; and, lastly, to the committees which had been formed in various foreign countries at his (Professor Corfield's) suggestion. The result of all this was that a far larger number of distinguished foreign hygienists had attended this Congress than had ever been got together before,

They had come from Idaho, Argentina, and New Zealand, in the extreme West, from Japan, Australia, and Tasmania, in the extreme East, from Russia, Norway, and Sweden, in the North, from India and Africa, in the South, and from most of the intervening countries. His work for the Congress for some years past had been a labour of love; he had renewed old friendships and formed new ones; and he hoped to meet those present in 1894 at the beautiful twin city which had received some of them so splendidly in 1887—the home of his old friends Von Markovszky, Fodor, and Csátáry, and of his new ones Körösi, Müller, and Gezakresz—the lovely capital of Hungaria “An der schönen blauen Donau.” (Hear, hear.)

Mr. MALCOLM MORRIS also responded.

Sir DOUGLAS GALTON proposed a vote of thanks to the Presidents and other officers of sections, which was unanimously adopted.

Sir JOSEPH FAYRER, in responding, said:—In thanking you for passing the vote of thanks to the presidents of sections, I wish to say that the success of the sections was very much due to the energy of the secretaries of the sections, who received all possible aid from the home and foreign secretaries, and that it was also due to the fact that the meetings were well attended, and the papers and discussions good. With regard to my own section, I owe much to Drs. Isambard Owen, Seaton, and Martin, for their energy and zeal; they all did much to make the section a successful one, but my thanks are more especially due to Dr. Owen.

The honorary presidents and distinguished foreign gentlemen who attended the section were of the greatest assistance to me, in taking the chair from time to time and presiding most ably; and the subjects discussed were of so much interest and importance that I felt sure that the work of the section had been successful, and that all felt confident that the results of the great Congress must be beneficial, not only to this country, but to the world at large.

Sir ROBERT RAWLINSON (Vice-President) proposed a vote of thanks to the Chairman, Sir Douglas Galton. He said:—As one of the Vice-Presidents of this Congress, I am called upon to propose a vote of thanks to our Chairman, Sir Douglas Galton, K.C.B., whose able administration has materially contributed to the smooth working of this great meeting now rising, and who has so admirably summed up the labours of the several delegates from the widespread portions of the world who have so materially contributed, by the information they have brought, to the interest of this great Congress. I have had the honour and pleasure of knowing, and of working with, your Chairman for many years, as members of the Army Sanitary Commission, and in other departments, and I have ever found him able and impressing, because master of any subject connected with public health under consideration. I venture to introduce the name of a lady, Florence Nightingale, a member of this Congress, whose name and fame are known and cherished with affection, wide as civilisation extends; and Lady Galton, the wife and co-worker with our Chairman, and Miss Nightingale are consins. I know that both ladies have put heart into their work of benevolence,

which they have freely and voluntarily undertaken, and great has been the result in the past, and greater will be the results in the future flowing from their labour. I have now to ask you to unite in a vote of thanks to Sir Douglas Galton, our Chairman, who has so happily brought this great Congress to its close.

Dr. SELL (Germany), said, in seconding the resolution :—I have great pleasure in seconding this vote of thanks to Sir Douglas Galton.

I will not entreat you with many more words in favour of this proposal when so many cheers bear our irrefutable testimony to the vast merits of our President of the Organising Committee.

His indefatigable courteousness toward all of us was combined with an amiable modesty in his co-operation for the happy issue of this Congress.

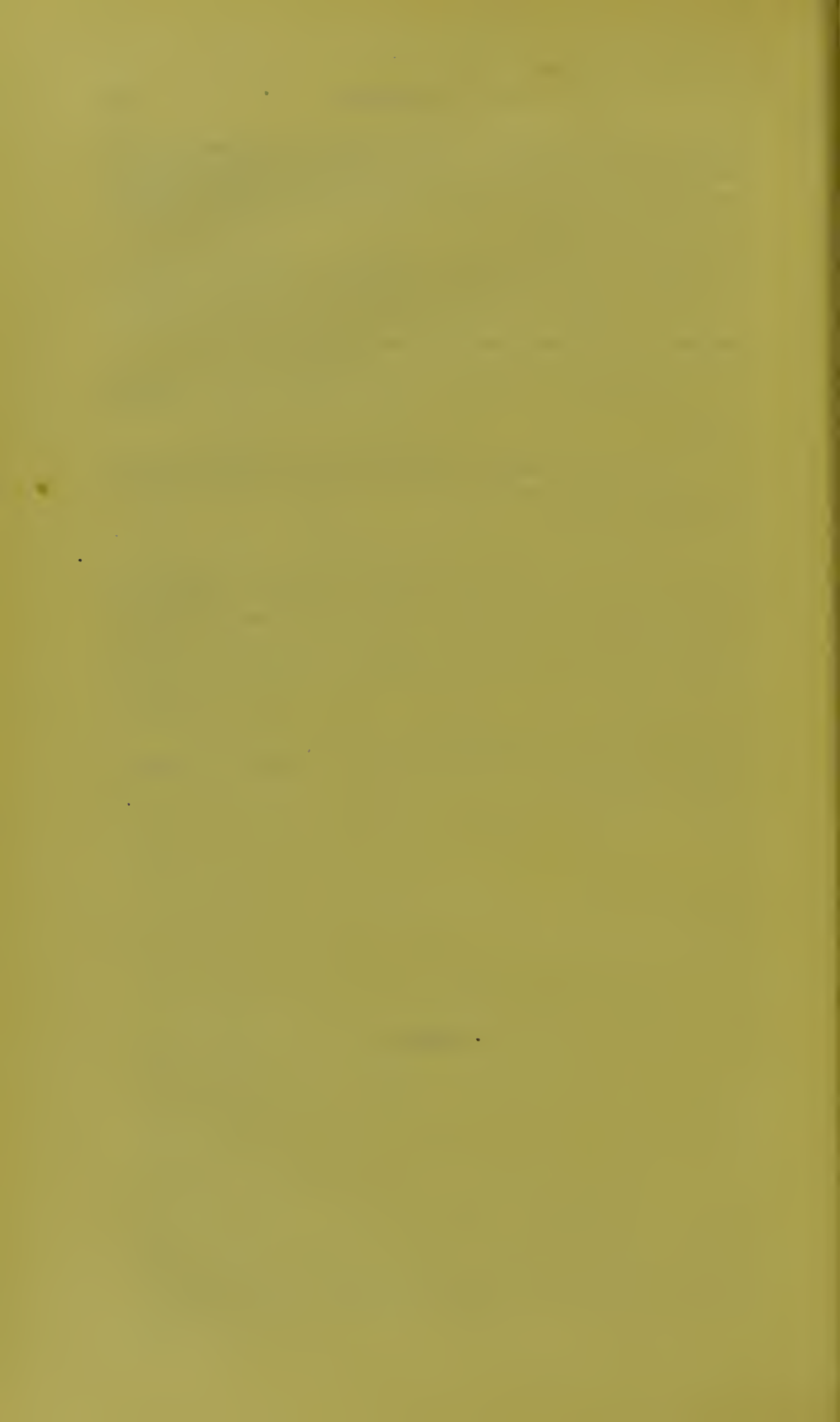
In our minds his image is intimately connected with the success of our assembly, and we shall ever bear in a thankful memory his gentle and amiable personality.

The vote of thanks was adopted by acclamation.

The CHAIRMAN, in responding, said that it had been a great matter of interest to him to assist in organising the Congress. He begged to thank the Press for the admirable manner in which they had reported the proceedings of the Congress, because, without the publicity which their reports had afforded, the proceedings of the Congress would not have been widely known as they now were, and would not have spread the information which the members of the Congress had been so assiduous in collecting. (Hear, hear.)

The proceedings then terminated, and the Congress of 1891 was brought to a conclusion.





REPORT

ON THE

Seventh International Congress of Hygiene and Demography

BY

The CHAIRMAN of the ORGANISING COMMITTEE.

The International Congresses on Hygiene were commenced in 1877 at Brussels under the especial auspices of the King of the Belgians, and have since been held at intervals of two or three years in various capitals of Europe.

After the second of these Congresses, it was decided to associate with the Hygiene Congress one on the cognate subject of Demography, which may be defined as the science of statistics applied to the social well-being of the people.

At the Congress held at the Hague in 1884 it was suggested to Dr. Corfield, who delivered an address to the Congress on that occasion, that a future meeting should take place in London. It was not, however, until after the amalgamation of the Parkes Museum with the Sanitary Institute, that a sufficiently strong hygienic body existed in London to carry forward the project.

At the Vienna Meeting in 1887, on the invitations of the Sanitary Institute of Great Britain and the Parkes Museum, conveyed to the Congress through their delegates, Dr. Corfield and Sir Douglas Galton, of the Society of Medical Officers of Health, conveyed through their delegate, Mr. Shirley Murphy, and of the National Health Society, conveyed by letter, it was resolved that the seventh Congress should be held in London in 1891; and Dr. Corfield and Mr. Shirley Murphy were elected the English representatives of Hygiene on the Permanent International Committee of the Congress, Sir Douglas Galton and Dr. William Ogle being elected the English representatives of Demography on that Committee.

In December, 1888, was commenced the formation of the General Committee for the Congress of 1891, by sending out a circular signed by the English members of the Vienna Congress, viz. : Sir Spencer Wells, Professor (now Sir George) Humphry, Professor E. Frankland, Dr. Mapother, Dr. Charles Cameron, M.P., Sir Douglas Galton, Dr. Corfield, and Mr. Shirley Murphy.

In response to this invitation, an Organising Committee was formed, which held its first meeting in June 1889, when Dr. Corfield and Mr. Shirley Murphy were elected honorary secretaries.

Dr. Brock and Dr. Moline were subsequently appointed assistant secretaries.

The necessary office accommodation and clerical assistance for carrying on the work were provided by the Council of the Sanitary Institute at the Parkes Museum.

The second meeting of the General Committee was held under the presidency of Sir Thomas Crawford, K.C.B., on July 3rd, 1890. At this meeting, H.R.H. the Prince of Wales, who had graciously consented to act as President of the Congress, was formally elected to that office.

The Queen subsequently honoured the Congress by assuming the position of Patron.

A public meeting, under the presidency of the Right Honourable the Lord Mayor, was also held at the Mansion House about the same time, with the object of making the aims of the Congress more widely known to the public. This meeting was largely attended by eminent sanitarians and persons of influence; and by securing the cordial support of the Corporation and citizens of London it largely contributed to the ultimate success of the Congress.

In November, 1890, Mr. Shirley Murphy resigned the office of Honorary Secretary to the Organising Committee; and on December 11th, Dr. Poore was elected as Mr. Murphy's successor.

A fresh arrangement was then made by which Dr. Poore undertook the office of Honorary Secretary-General, to organise the work and to arrange the various departments of the Congress, and Dr. Corfield, who had an extensive acquaintance with the foreign delegates, assumed the office of Honorary Foreign Secretary, to bring into correlation the foreign members of the Permanent International Committee, and to conduct the very large foreign correspondence.

The offices of the Congress were removed from the Parkes Museum to the rooms of the Medico-Chirurgical Society at 20, Hanover Square, W.

On December 11th there were appointed, first, a Finance Committee, with Surgeon-General Cornish, C.I.E., as Chairman, and Dr. Moline as Secretary; and secondly, a Reception Committee, of which Sir Spencer Wells, Bart., was Chairman, and Mr. Malcolm Morris, F.R.C.S.E., Honorary Secretary.

An Indian Committee was subsequently formed, of which Sir Owen Tudor Burne, K.C.S.I., was Chairman, and Mr. Digby was appointed the Honorary Secretary.

The organisation of the Sections of the Congress departed in some degree from the arrangements of former Congresses, and will be found described in the report of the Honorary Secretaries (*see* page 45).

We may point with pride to the enthusiasm which this Congress evoked in our own Empire as well as in foreign countries.

This was shown by the large number of delegates sent to it from municipalities and universities and from scientific bodies, both throughout this country as well as from abroad; and also by the large and munificent interest displayed in its success by the subjects of the Queen in our Indian Empire.

The valuable communications received and the resulting discussions, which are published in our Transactions, are an evidence of the scientific value of the Congress. This scientific success was largely due to the individual exertions made by the several gentlemen named above. On the other hand, the social success of the Congress mainly resulted from the efforts made by the Reception Committee under Sir Spencer Wells and Mr. Malcolm Morris, which were materially assisted by the splendid entertainment given to the members of the Congress by the Corporation of the City of London; as well as by the graceful skill of Mrs. Priestley and of the Ladies who contributed to the Salon in Bond Street, so generously lent by Mr. Agnew and decorated by Mr. Maple, for the reception of the Ladies of the Congress.

These various successes could never have been attained without the untiring efforts, the great organising skill, and the conciliatory methods carried on during several months by the Honorary Secretary-General, Dr. Poore; and by the energy of our Honorary Foreign Secretary, Dr. Corfield, who had prepared the way for the Congress during many years, both by correspondence and by personal intercourse with the leading hygienists of Europe.

Nor should we have received the support which we did receive from India, without the energetic efforts of Mr. Digby as Secretary to the very influential committee of representatives of India which we were so fortunate as to form.

We can further congratulate ourselves that we have a practical evidence of the efficiency of our management in the flourishing condition of our Finances. This has been largely due to the care of the Chairman of our Finance Committee, Surgeon-General Cornish, C.I.E., to the ability of the Secretary of that Committee, Dr. Moline, and to the forethought of our Editor, Dr. Shelly.

In conclusion it must be borne in mind that we should not have been able to present this satisfactory record, had we not received the earnest support of our President, H.R.H. the Prince of Wales, whose personal interest in the organisation of the Congress was a powerful element in securing its success.

DOUGLAS GALTON,

December, 1892.

Chairman of the Organising Committee.





Report on the History and Organisation of the Congress.

BY

The HONORARY SECRETARIES.

[In this Report Dr. Corfield is mainly responsible for the early History of the Congress and for its Foreign Relations, and Dr. Poore for the rest.]

In submitting the following report, it is desirable to describe briefly the origin of the London meeting of the Congress.

In 1884, Dr. Corfield, at the request of the Organising Committee of the International Congress of Hygiene and Demography, held at the Hague, delivered one of the public addresses before that Congress.

During the meeting of that Congress, it was frequently asked why the International Congress of Hygiene and Demography had never been invited to hold a meeting in London. The obvious reply was that there was in London no one hygienic body in a position to invite the Congress, and that the Government could not be expected to initiate such a movement. It was then decided that the next meeting of the Congress should be held at Vienna in 1886. This meeting was subsequently postponed until 1887, when the Sanitary Institute, the Parkes Museum, the Society of Medical Officers of Health, and the National Health Society sent invitations to the Congress by their delegates (Sir D. Galton, Professor Corfield, and Mr. Shirley Murphy), in consequence of which it was decided that the next meeting should be held in London in 1891.

Mr. Shirley Murphy and Dr. Corfield were, during the Vienna Congress, elected the English representatives of Hygiene on the Permanent International Committee of the Congress, and Sir Douglas Galton and Dr. William Ogle were elected the English representatives of Demography on that Committee.

In December 1888, the formation of the General Committee was begun by sending out a circular signed by the English members of the Vienna Congress, viz.: Sir Spencer Wells, Professor (now Sir George) Humphry, Professor E. Frankland, Dr. Mapother, Dr. Charles Cameron, M.P., Sir Douglas Galton, Mr. Shirley Murphy, and Dr. Corfield.

The General Committee held its first meeting on June 18th, 1889, under the presidency of Sir Spencer Wells, Bart. At this meeting the following were appointed to act as an Organising Committee, with power to add to their number :—

Sir Douglas Galton, K.C.B., Professor Frankland, F.R.S., Mr. Ernest Hart, Professor Hayter Lewis, Dr. E. D. Mapother, Dr. F. S. Mouat, Dr. Thorne Thorne, Dr. Corfield, and Mr. Shirley Murphy. Sir Douglas Galton was appointed Chairman, and Dr. Corfield and Mr. Shirley Murphy Honorary Secretaries of the Organising Committee. The first meeting of the Organising Committee was held on July 29th, 1889.

Early in August, 1889, a meeting of the Permanent Committee was held in Paris; there were present Dr. Brouardel, chairman, Sir Douglas Galton, Mr. Murphy, and Dr. Corfield, members of the Permanent Committee, and also Drs. Napias and A. J. Martin, members of the French Committee, and Dr. Mapother, member of the London Organising Committee. At this meeting the progress that had been made by the Organising Committee was reported, and also the appointment of the honorary secretaries. Shortly after this, Dr. Broek and Dr. Moline were appointed assistant secretaries, and for more than two years they worked steadily, and daily, at the organization of the Congress, under the direction of the Honorary Secretaries.

The General Committee was gradually enlarged by obtaining the appointment of delegates from all the important municipal, educational, and professional bodies in the kingdom, and the work of collecting subscriptions to meet the expenses of the Congress was commenced.

The second meeting of the General Committee was held, under the presidency of Sir Thomas Crawford, K.C.B., on July 3rd, 1890. At this meeting H.R.H. the Prince of Wales, who had graciously consented to act as President of the Congress, was formally elected to that office by acclamation.

On the same day a public meeting, under the presidency of the Right Honourable the Lord Mayor, was held at the Mansion House, with the object of making the aims of the Congress more widely known to the public. This meeting was largely attended by eminent sanitarians and persons of influence, and by securing the cordial support of the Corporation and citizens of London, it largely contributed to the ultimate success of the Congress.

From the first meeting of the Organising Committee, on July 29th 1889, until the autumn of the following year, when offices were secured, at 20, Hanover Square, the whole of the work of the Congress was done at the Sanitary Institute, where accommodation was provided by the Council of the Institute free of cost.

The rooms occupied by the learned societies at Burlington House, the building of the London University, in Burlington Gardens, and also the Lecture Theatre at the Royal School of Mines, Jermyn Street, were granted by the authorities of those institutions for the use of the Congress, and St. James's Hall was secured for the opening meeting.

In 1890 His Royal Highness the Prince of Wales caused a letter to be addressed in his own name to foreign and colonial Governments all over the world, and to the Government of India, inviting them to send delegates to the Congress; these invitations were sent through the Foreign, Colonial, and India Offices respectively by the kind permission of the Marquess of Salisbury, of Lord Knutsford, and of Viscount Cross. Invitations were also sent to many foreign cities and universities. The result of these invitations is shown in the list of foreign delegates to the Congress to be found in this volume.*

* *Vide* page 151.

In the autumn of 1890 the Organising Committee was greatly enlarged, a Reception Committee was appointed, with Sir Spencer Wells as chairman and Mr. Malcolm Morris as secretary, and a Finance Committee, with Surgeon-General Cornish as chairman and Dr. Moline as secretary, and the organisation of the various sections of the Congress was proceeded with.

The organisation of the Congress had thus been going on for more than two years, when, in November 1890, Mr. Shirley Murphy, finding that his duties as Medical Officer of Health for the London County Council did not permit of his devoting sufficient time to the work of the Congress, retired from the joint secretaryship, and on December 11th, Dr. Poore was elected to succeed him.

On March 16th, 1891, the constitution of the sections and committees was submitted in detail to a large meeting of the General Committee, over which H.R.H. the Prince of Wales, the President of the Congress, presided. At this meeting H.R.H. the President announced that Her Majesty the Queen had consented to act as Patron of the Congress.

At this meeting we, the undersigned, were appointed to our respective offices, and it was further announced that an Indian Committee had been formed, and that Mr. S. Digby had been appointed Honorary Secretary for India.

By means of his personal relations with foreign hygienists, the Foreign Secretary was able to obtain the formation of committees in Austria, Belgium, Denmark, France, Germany, Holland, Hungary, and Italy, and lists of these committees will be found, together with the list of foreign delegates, on pp. 141-186 *post*. The formation of such committees was an innovation, and no doubt contributed very largely to the success of the Congress.

Many communications were also made to foreigners of distinction by the Presidents and Secretaries of the various sections, who forwarded invitations to such foreign savants as were distinguished for their services to the departments of knowledge with which the sections were severally concerned.

The preliminary programme had already been translated into French, and approved by the President of the French Committee, and the late Dr. William Roth of Dresden, the President of the German Committee, had kindly furnished a translation of the same programme into German, and these had been printed and widely circulated in foreign countries.

The detailed prospectus was also translated into French and German for the use of the Congress, and in this connexion the services of Mr. L. Belinfante, the assistant secretary of the Geological Society and an accomplished linguist, who had been appointed assistant foreign secretary; and also the assistance rendered by Dr. Michels, of the German Hospital, must be acknowledged.

It was decided that at the opening meeting of the Congress some of the most distinguished of the foreign delegates should be invited to make speeches on behalf of the countries they represented. These

speeches were made by Dr. Brouardel, Dean of the Faculty of Medicine of Paris, and President of the French Committee and of the Permanent Committee of the Congress; by Dr. von Coler, Chief Surgeon-General of the War Department in Berlin; Professor Alfonso Corradi, of Pavia; Mons. Josef Körösi, chief of the Statistical Department of Budapest; and Dr. Wilhelm Roth, of Dresden, president of the German Committee; whose speeches will be found in the report of the Opening Meeting of the Congress.*

The organisation of the Congress differed somewhat from those which had preceded it, and notably in the fact that the sections into which it was divided were ten in number, instead of five, as had been the case in Vienna. This appeared to the Organising Committee to be necessary, because the basis and the aims of hygiene tend constantly to widen. The Congress was not restricted to any one profession, but was a re-union of medical men, statisticians, chemists, bacteriologists, veterinarians, agriculturists, architects, engineers, educationalists, politicians, and municipal officials, working each in their appropriate sections, and with one object, the maintenance and improvement of the public health. It was, in short, a Congress of many professions, each marshalled under a selected chief. Hence lay its strength and the chief cause of its success.

The Organising Committee were most fortunate in being able to secure the services of distinguished men—the majority of them well known both at home and abroad—to take upon themselves the onerous duties of presiding over the sections, and of transacting the very heavy secretarial work involved in the organisation of, and transaction of business in, each of the sections.

With 10 presidents of sections, and 30 sectional secretaries, the machinery of the propaganda for the Congress was at once strengthened and increased, as was shown by the fact that after the sections were organised and officered, the progress of the Congress became notably quickened.

Another noteworthy feature of the Congress was the large participation in it of the municipal bodies throughout the country; no less than 125 of these bodies (town or county councils, local boards, or vestries), including the chief cities and towns in England, Scotland, and Ireland, sent delegates to the Congress, and 66 of them contributed to the funds of the Congress a sum of close upon 1,000*l*. The municipal delegates consisted largely of persons who were seriously interested in practical sanitation, and comprised many chairmen of sanitary committees, medical officers of health, and surveyors. This large participation of municipal bodies was mainly due to the action of H.R.H. the President, who ordered a letter to be addressed to the local authorities, pointing out the aims and objects of the Congress, and inviting them to take part in it. It was also largely attributable to the example set by the Corporation of the City of London, headed by the Lord Mayor, Sir Joseph Savory, Bart. The Corporation voted a sum of 2,000*l*. for

* *I*de Volume I., pp. 13 *et. seq.*

the entertainment of the Congress, and the *conversazione* at the Guildhall, organised by Mr. Alderman Stuart Knill, was one of the most memorable features of the Congress week, and well sustained our reputation for national hospitality.

Attention may also be directed to the position allotted to pure science in the Congress. If sanitary details and sanitary laws be not based upon scientific principles, they are apt to be worse than useless, and the gathering together of bacteriologists, chemists, medical men, statisticians, veterinarians, and agriculturists, for the purpose of mutual discussion, constituted a feature which one may hope marks an era in the scientific history of the country, and is of good augury for the future. It may be added that all the Universities, and almost all the scientific societies in the country sent delegates to the Congress.

An important point in the organisation was the autonomy of the sections. Men of undoubted eminence having been selected as presidents and secretaries, received *carte blanche* for the arrangement of the business of the sections, the Organising Committee merely communicating to them a list of the subjects which had been recommended by the previous Congress as fitted for discussion, but leaving them, otherwise, quite unfettered. The Organising Committee retained a power of veto, but this, it is almost needless to say, was never exercised.

As regards the numerical strength of the Congress, the following facts may prove of interest: First, as regards the delegates, it will be found that 316 municipal, learned, and philanthropic bodies in the British Islands appointed 686 delegates; 39 bodies in India and Ceylon appointed 67 delegates, and 19 bodies in the British Colonies appointed 27 delegates. This gives a total of 780 delegates, appointed by 364 bodies in the British Empire.

In addition to this, 25 Governments and 197 municipal and other bodies in foreign countries appointed 352 delegates, so that we have a total of 1,132 delegates, appointed by 586 Governments, corporate bodies, and associations throughout the world.

The numbers of the delegates appointed by various bodies in Foreign Countries were as follows: Governments and Government Departments, 144; Cities, Corporations, and Provincial Councils of Health, 108; Medical and other Professional and Scientific Societies, 73; Universities, Colleges, and Faculties of Medicine, 55; Hygienic Societies, 40; and other bodies, 6. The same delegate was frequently appointed to represent more than one body.

Many of those persons who were appointed delegates were unable, from various causes, to attend the Congress; but, on the other hand, a very large number of persons interested in hygiene and demography became members of the Congress on their own initiative.

There were, altogether, 2,483 full members of the Congress, of whom 1,887 were inhabitants of the British Isles, 58 inhabitants of India and the Colonies, and 538 inhabitants of foreign countries. In addition to the 2,483 full members of the Congress, there were some 400 lady members, and about 200 representatives of the press, both British and foreign, to

whom complimentary tickets were accorded. Thus the total number of our guests during the Congress week exceeded 3,000.

Of those who, not being inhabitants of the British Isles, attended the Congress, there came from—

France - - -	125	Roumania - - -	9
Germany - - -	110	Poland - - -	8
Austria - - -	68	Japan - - -	7
United States - - -	35	Canada - - -	7
India and Ceylon - - -	35	Sweden and Norway - - -	5
Belgium - - -	28	Turkey - - -	4
Hungary - - -	27	Portugal - - -	3
Italy - - -	22	Argentina - - -	3
Denmark - - -	21	Servia - - -	3
Netherlands - - -	19	Bulgaria - - -	3
Australasia - - -	15	Egypt - - -	2
Spain - - -	13	Natal - - -	1
Switzerland - - -	11	Monaco - - -	1
Russia - - -	10	Venezuela - - -	1

The expenses connected with a Congress of such magnitude are necessarily very great, and in a country such as ours, where voluntary effort is relied upon for the accumulation of funds, and where the pecuniary help of the State is not afforded to such enterprises, the responsibilities thrown upon the finance committee were both large and serious. The balance sheet, when published, will show the amount and sources of income, and the chief items of expenditure. The total amount received from the public as donations to the Congress, given with the object of enabling the Organising Committee to disseminate information with regard to the Congress and to make suitable arrangements for the transaction of business and entertainment of the members, amounted to (approximately) 5,700*l.*; while the amount received for members' tickets and ladies' tickets amounted to (approximately) 2,500*l.* Thus the total sum collected was 8,200*l.* Of this sum, 640*l.* was collected prior to January 1st, 1891, and over 7,500*l.* during 1891.

The total number of *donors* was 1,027, many of whom (the majority in fact) also took members' tickets. All donors of 10*l.* and upwards were ultimately placed upon the list of members, irrespective of the payment or otherwise of the sum (1*l.*) which was levied from each member.

The Organising Committee are especially indebted to the trustees of the will of the late Richard Berridge, who made the handsome contribution of 500*l.* to the funds, and also to the following contributors, who made donations of 50*l.* and upwards. The Maharajah of Vizianagram, 200*l.*; H.H. the Maharajah of Bhavnagar, H.H. the Maharajah Gackwar of Baroda, H.H. the Nizam of Hyderabad, H.H. the Maharajah of Jeypore, H.H. the Maharajah of Mysore, H.H. the Maharajah of Travancore, the British Medical Association, the National Society for Aid to the Sick and Wounded in War, the Corporation of Glasgow, the

Duke of Northumberland, the Duke of Westminster, and Messrs. N. M. Rothschild and Sons, who contributed each 100*l.*; and to H.H. the Maharajah of Cooch Behar, the Fishmongers' Company, the Mercers' Company, the Merchant Tailors' Company, the Clothworkers' Company, the Goldsmiths' Company, the Royal Agricultural Society, the Royal College of Veterinary Surgeons, the Corporation of Edinburgh, the Corporation of Newcastle-on-Tyne, Lord Rothschild, and Lord Iveagh, who contributed 50*l.* or 52*l.* 10*s.* The full list of donations will be found at p. 265, and will be seen to contain abundant evidence of the warmth of the support accorded to the Congress by all classes, a support which has enabled the Organising Committee to thoroughly discharge its liabilities. It will be readily admitted that the work of collecting and disbursing more than 8,000*l.* involves a large amount of serious labour; and how arduous the work became at last will be understood when it is stated that of the total sum collected, over 5,000*l.* (chiefly in small sums) was collected after July 1st, 1891; that is in the last five or six weeks before the opening of the Congress. The Finance Committee, under the chairmanship of Surgeon-General W. R. Cornish, C.I.E., have already held 35 meetings, and their work will not have terminated until the publication of the final balance sheet. When it is borne in mind that each donation or subscription entailed a series of separate clerical acts, one will be able to appreciate the great services rendered to the Congress by Dr. Paul Moline, the financial secretary, and Mr. George Cooper, the assistant financial secretary and collector.

The 8,000*l.* which was actually paid into the coffers of the Congress does not by any means represent the whole of the financial help which was received. Thus it will be noted that among the donors to the Congress, the Corporation of the City of London does not appear, while in reality that body must be regarded as the most munificent of all our contributors by reason of the sum of 2,000*l.* which it voted for the hospitable entertainment of the Congress at the Guildhall.

In the proceedings of the Closing Meeting (*see* page 30) will be found a list of public bodies and private individuals to whom thanks were tendered for various acts of hospitality. These acts of hospitality in many cases involved a considerable expenditure of money, and in estimating the contributions to the Congress, one must be careful to include those whose contributions were made in other ways than by giving money donations. If this be done, the addition of many thousands of pounds must be added to the receipts and disbursements made on behalf of the Congress.

The arrangements necessary for the meeting of the Congress and the transaction of its business involved many details, to which it may be permitted to shortly allude.

The Congress was very fortunate in the situation and the character of the rooms which were placed at the disposal of the Organising Committee. To the learned societies which occupy Burlington House, to the Senate of the University of London, to the director of the Royal School of Mines, and to Messrs. Agnew, of Bond Street, the Congress is largely indebted for its success. All the sectional meeting rooms,

the reception room, and the "ladies drawing room" in Bond Street, were within a few yards of each other, and of St. James's Hall—which was hired for the purposes of the inaugural meeting. The advantages of having the whole business of the Congress transacted within a few minutes walk of the reception rooms contributed very largely to the comfort of the members.

A volume of "Abstracts," including *resumés* of the papers received up to that date, arranged under the headings of their several Sections in the order in which they were expected to be read, was published at the end of July, and a copy was supplied to each member and guest of the Congress.

The Society of Medical Officers of Health kindly undertook to issue during the session of the Congress a daily number of "Public Health," the Journal of the Society, and the six numbers issued during the week of the Congress proved of great use to the members, and were much appreciated. The first number contained not only the general programme of the Congress, but a series of articles written by members of the Society on different topics connected with the sanitation of London and its immediate neighbourhood, while the succeeding numbers gave the details of the work of the 10 sections, and a record of the social and other events connected with the gathering. The "Lancet" and "British Medical Journal" published special Congress numbers, and the events of the Congress were amply chronicled in the Daily Press, and in the various Professional Journals interested in its work. The "Times" devoted over 60 columns to the Congress, while the other daily papers gave very full and excellent reports. The public owes a deep debt of gratitude to the Press for this wide dissemination of so many interesting papers and debates.

In addition to "Public Health," for which a small sum was necessarily charged, the Organising Committee distributed on August 11th and three following days 2,000 copies daily of the "Daily Programme," containing the programme of each section for the day, and a list of the excursions and social gatherings arranged for the day. This work was admirably carried through, thanks to the promptitude of the sectional secretaries in furnishing their programmes, and to the energy of Mr. Whalley, who saw the publication through the Press.*

Among other matters for which arrangement had to be made, was that of interpretation. The official languages of the Congress were English, French, and German, and it was obligatory that all communications to the Congress should be made in one of these three languages.

* It may be well to place on record that on Thursday, August 13th, the "copy" for the next day's programme was stolen and has never been found. Mr. Whalley, however, from various sources at his disposal, assisted by an excellent memory, soon provided fresh "copy," and the Friday's programme was issued as usual, and almost without any errors. The daily programme for each day was printed on paper having a distinguishing colour, and the name of the day of the week printed in very big type at the head of the first page. In this way members were largely saved the annoyance of accidentally referring to programmes not dealing with the instant day.

All French and German translations provided for the Organising Committee were made by persons born in France and Germany respectively, and it was found that in those few instances where this rule was departed from, the translations had to be made a second time.

Every section had *carte blanche* to make its own arrangements for interpreting its discussions, and in every section at least one secretary was selected on account of high linguistic attainments. It is evident that for the interpretation of the business of the sections not only was a knowledge of French and German necessary, but likewise a technical knowledge of the subjects under discussion.

The amount of interpretation found necessary in the various sections varied very much. In some sections the greater part of the communications were in English, and in others, such as the Bacteriological Section, it was found that the service of interpreters was hardly necessary, because the majority of those who took part in the discussion were quite able to understand the papers and speeches made in the three official languages.

At the opening meeting it was not practicable to employ an interpreter, because of the exigencies of time; and, indeed, interpretation was not necessary, because no immediate discussion was invited on the addresses made, and translations of them were supplied to the daily papers.

At this meeting the following gentlemen kindly gave their services as "stewards" and conducted members to their seats: Dr. Pasteur, Dr. Pernet, Dr. F. B. Wells, Mr. Arthur Jackson, and Mr. H. Bullock. The two first named were invited to do this work mainly on account of their intimate knowledge of French and German. Dr. Pasteur was on duty on the platform, while Dr. Pernet took charge of that part of the hall especially allotted to foreign delegates.

At the closing meeting, Mr. Adolphe Smith, one of the honorary secretaries of the Demographical Division, kindly interpreted those addresses which were made in French, and also the English speeches for the benefit of the French members. This added greatly to the interest of the final meeting.

The details of the sectional meetings are given at length in Volumes I. to X. of the Transactions, which are devoted to chronicling the proceedings of the several sections. In addition to the ordinary sectional meetings a special meeting of members of Congress and others was held on Tuesday, August 11th, under the presidency of Sir Douglas Galton, to consider "The Education and Registration of Plumbers in relation to Public Health"; and two public meetings of the Indian Committee were held on Thursday and Friday (August 13th and 14th), under the presidency of Sir Mountstuart Grant Duff. The details of these meetings will be found in Volumes XIII. and XI. of the Transactions.

The social arrangements made for the entertainment of members were very numerous, and the organisation of them threw a great deal of very heavy work on the Reception Committee. This work would have been very much lighter had it been possible to allow the Congress ticket

to admit to all the social gatherings. This was not possible, because the number of members who might attend the Congress was unknown up to the very hour of opening, and it is manifest that the exigencies of space, not to speak of other considerations, made it quite impossible for those who gave entertainments not to adopt some means of limiting the numbers.

The following were among the chief arrangements organised by the Reception Committee, of which Sir Spencer Wells, Bart., was the chairman, and Mr. Malcolm Morris, F.R.C.S., the indefatigable honorary secretary.

A special Handbook for London, printed in French and English, containing several maps and plans, and mainly devoted to those matters having a special interest for members of the Congress, was presented to every member.

A congress badge from a design by Mr. Thomas W. Cutler, F.R.I.B.A., was presented to every member. The design of this badge is shown on the title page of each volume of the transactions. The adoption of this badge was largely due to the suggestion of Mr. Ernest Hart, and it will be admitted that not only was it a very pleasing souvenir of the Congress, but that it served a most useful purpose by enabling members of Congress to be instantly identified, thus adding considerably to their comfort.

The social festivities commenced on the evening of Monday, July 10th, with the banquet given by Sir Andrew Clark, Bart., M.D., President of the Royal College of Physicians. This banquet was given by Sir A. Clark in his private capacity and took place in the library of the Royal College of Physicians, which was placed at the disposal of their president by the Fellows of the College. His Royal Highness the Prince of Wales honoured the banquet with his presence, and a very distinguished company (125 in number) had the honour of meeting His Royal Highness.

On the evening of the 10th the President (Mr. T. Bryant) and Council of the Royal College of Surgeons gave a brilliant reception at the College, the Hunterian Museum being thrown open for the occasion. The College having ample space at its command, extended its hospitality to ladies and gentlemen alike, and most considerately allowed the Congress ticket to be a sufficient pass for the guests. This relieved the Reception Committee of the great difficulty which was experienced in distributing invitation cards so as to deal equitably with all members of the Congress.

On Tuesday, August 11th, the Baroness and Mr. Burdett Coutts, M.P., gave a magnificent garden party at Holly Lodge, Highgate, at which everything was done by the hospitable hosts for the comfort and amusement of the guests; and in the evening the Lord Mayor and Corporation entertained the Congress at a reception in the Guildhall. The Guildhall was temporarily enlarged and magnificently decorated for the occasion, and the entertainment was of a character to fully sustain the reputation of the great city of London for unrivalled

hospitality. To Alderman Stuart Knill, the chairman of the special committee appointed by the Common Council to carry out this conversatione, and to Sir John Monckton, the Town Clerk, who was indefatigable in making arrangements for the comfort of the members of the Congress who attended, the warmest thanks are due. The entertainment was one which can never be forgotten by those who had the honour of being invited.

On Wednesday, August 12th, Sir Edwin and Lady Saunders received the Congress at a garden party at Wimbledon. Lord and Lady Wantage gave a garden party at Carlton Gardens. The National Health Society gave an afternoon reception, as did also the Royal Normal School for the blind. The Public Health Medical Society and the Fellows Club of the Royal College of Physicians gave banquets, and in the evening the Royal College of Physicians received the gentlemen of the Congress at the College in Pall Mall, and Mrs. Priestley and the other members of the Ladies' Committee received the ladies of the Congress at Messrs. Agnew's Galleries in Bond Street, which were magnificently and gratuitously decorated and upholstered by the Messrs. Agnew and Mr. Blundell Maple, M.P.

On Thursday, August 13th, 45 Foreign, Indian, and Colonial delegates were entertained at luncheon, at Osborne, by command of Her Majesty the Queen, Patron of the Congress, and afterwards had the honour of being presented to Her Majesty by His Royal Highness the Prince of Wales, President of the Congress.

The party which went to Osborne left early by a special train, and were taken over from Portsmouth in the Queen's yacht. They were accompanied by Sir D. Galton, Dr. Poore, Prof. Corfield, and Mr. S. Digby. Luncheon was provided at 2 o'clock. The following is an official list of Her Majesty's guests:—

Country.	Name.	Description and Qualification.
AUSTRIA HUNGARY.	Dr. EMIL KUSÝ -	Ministerialrath, Sanitäts referent. Delegated by Minister of the Interior.
	VON GRUBER, FRANZ RITTER.	Hofrath Professor of Architecture. Delegated by Imperial Council of Health.
	LUDWIG, Dr. ERNST	Hofrath Professor of Applied Chemistry at the Pathological Institute. Delegated by Minister of Finance.
	FODOR, Dr. J. -	Professor of Hygiene, University of Budapest. Delegated by Minister of Public Worship and Education.
BELGIUM	BECO, M. E. -	Secretary General of the Department of Agriculture, Industry, and Public Works. Delegated by Minister of Agriculture and Public Works.
	JANSSENS, Dr. E. -	Inspecteur en chef de l'Hygiène à Bruxelles, Membre de la Commission Centrale de Statistique de Belgique, de l'Académie Royale de Médecine et du Conseil Supérieur d'Hygiène.

Country.	Name.	Description and Qualification.
DENMARK	LEHMANN, Dr. J.	Dean of the Royal Sanitary Council. Delegated by the Danish Government.
	BERG, HANS V.	Medical Director of the Navy. Delegated by Danish Naval Department.
	LAUB, Surg.-Col.	Delegated by the Danish Army Department.
EGYPT	IBRAHIM, Dr. HASSAN PASHA.	Inspector Sanitary Department and Professor of Hygiene.
FRANCE	BERGERON, Dr. ETIENNE JULES.	Secrétaire perpétuel de l'Académie de Médecine, Vice-Président du Comité Consultatif d'Hygiène Publique. Delegated by Ministry of Public Instruction.
	BROUARDEL, M. le Dr.	Doyen de la Faculté de Médecine de Paris, Président du Comité Consultatif d'Hygiène Publique. Delegated by French Government.
	CHAUVEAU, M. le Dr. AUGUSTE.	Membre de l'Institut. Delegated by the Ministry of the Interior of Public Instruction and of Agriculture.
	FÉRAUD, M. le Dr. BÉRANGER.	Président du Conseil Supérieur de la Marine. Delegated by the French Government.
	LEVRAUD, Dr.	Président du Conseil Municipal de la ville de Paris. Delegate of City of Paris.
GERMANY	ROUX, M.	Pasteur Institute, Paris.
	BUCHNER, Dr.	Professor at Munich University. Delegated by the Bavarian Government.
	COLER, Dr. VON	Geheimer Obermedicinalrath. Delegated by the Medical Department of the Prussian Army.
	SÉLL, Professor	Geheimer Regierungsrath. Delegated by the German Empire.
	PISTOR, Dr.	Geheimer Medicinalrath. Delegated by the Prussian Government.
	ROTH, Professor Dr. W.	President of German Committee of the International Congress. Generalarzt des XII. K. S. Armée Corps. Delegated by War Ministry of Saxony.
	VON KOCH, Professor	Delegate of Government of Würtemberg.
ITALY	MOSSO, Dr. ANGELO	Professor at Royal University, Turin. Delegated by Italian Government.
	CORRADI, Dr. A.	Professor at Royal University, Pavia. Delegated by Italian Government.
JAPAN	GOTOH, Dr. SHIMPEI	Official Expert in Ministry of Interior, Tokio. Delegated by the Government of Japan.
THE NETHERLANDS	VAN OVERBEEK DE MEYER, Dr. G.	Professor of State University, Utrecht. Delegated by the Government of the Netherlands.
	RUYSCH, Dr. W. P.	Conseillier pour le service Sanitaire Département de l'intérieur. Delegated by the Government of the Netherlands.

Country.	Name.	Description and Qualification.
ROUMANIA	FÉLIX, Dr. I.	Professeur à l'Université de Bucarest, Membre du Conseil Sanitaire Supérieure de Roumanie, Médecin en Chef de la Ville de Bucarest. Delegated by Government of Roumania and city of Bucharest.
RUSSIA	KOWALKOWSKI, Professor CONSTANTIN.	Professeur d'Hygiène à l'Université Imperiale de Varsovie. Delegated by Imperial University, Warsaw.
SPAIN	VILANOVA Y PIERA, DON JUAN.	President of Health Section of Royal Academy of Medicine. Delegated by Spanish Government.
SWEDEN AND NORWAY.	LINROTH, Dr.	Chief Medical Officer, Stockholm. Delegated by Swedish Government and by city of Stockholm.
	BENTZEN, Dr. GOT-FRIED E.	Director of the Civil Medical Service, Christiania. Delegated by Government of Sweden and Norway.
SERVIA	GEORGEVITCH, Dr.	Delegated by Servian Government.
SWITZERLAND	GUILLAUME, Dr.	Director of the Federal Bureau of Statistics. Delegate of the Swiss Government.
	GÖLDLIN DE TIEFENAU, Col. Dr.	Instructeur en Chef des troupes Sanitaires Suisses. Delegate of the Swiss Government.
	WOODHULL, Major ALFRED.	Medical Department, United States Army. Delegated by U.S. Government Army Department.
UNITED STATES OF AMERICA.	WALLES, Lieut.-Col. PHILIP S.	Medical Director of the U.S. Navy. Delegated by U.S. Government Naval Department.
	SALMON, Dr.	Chief of Bureau of Animal Industry in the U.S. Department of Agriculture. Delegated by Department of Agriculture.
INDIAN EMPIRE AND CEYLON.		
INDIA	SIMPSON, Dr.	Sanitary Officer of Calcutta. Delegate of Corporation of Calcutta.
	BHOWNAGGREE, MAN-CHERJEE, C.I.S.	Member of the Bhavnagar Judicial Council. Delegate of Maharajah of Bhavnagar.
	RAY, Dr. PRASANNA KIMAR.	Professor at Presidency College. Delegated by Chancellor and Syndicate of Calcutta University.
CEYLON	FERNANDO, Dr. SOLOMON.	Delegate of Government of Ceylon, and of Medical College.
BRITISH COLONIES.		
CANADA	COVERNTON, Dr.	Delegated by Ontario, Canada.
NEW SOUTH WALES.	THOMPSON, Dr. J. ASHBURTON.	Delegated by Government of New South Wales.
VICTORIA.	BOWEN, Dr. AUBREY	Delegated by Government of Victoria.

On Thursday, August 13th, the Sanitary Institute gave an afternoon reception at the Parkes Museum of Hygiene, and in the evening there was a subscription dinner at the Crystal Palace, which was attended by

nearly 700 members of the Congress. The dinner was followed by a display of fireworks.

On Friday, August 14th, Sir Spencer Wells entertained 2,000 members at a garden party at Golder's Hill, Hampstead, and in the evening the Executive Committee gave a conversazione at the South Kensington Museum, which was placed at the disposal of the Congress by the Committee of Council on Education.

The University of Cambridge having decided to confer the honorary degree of LL.D. on a few distinguished foreigners, selected the following to receive that honour:—Dr. Brouardel, Dean of the Faculty of Medicine of Paris; Professor Alphonso Corradi, of the University of Pavia; Professor J. Fodor, of the University of Budapest; Professor von Inama Sternegg, of the University of Vienna; and Baron von Esmarch, of Kiel. The two last were unable to be present at the Congress, but the three first-mentioned (with a numerous party of Foreign Members of the Congress) were conducted by the Honorary Foreign Secretary to Cambridge on Saturday, August 15th, when the honorary degree of LL.D. was conferred upon them by the Vice-Chancellor in the Senate House, and the following appropriate orations were made by the Public Orator, Dr. Sandys, in presenting them to the Vice-Chancellor.

“DIGNISSIME domine, domine Procancellarie, et tota Academia:—

“Nescio quo potissimum exordio hospites nostros, qui de salute publica nuper deliberaverunt, senatus nomine salutare debeam. Ad ipsos conversus, illud unum dixerim:—qui aliorum saluti tam praeclare consulistis, vosmetipsos omnes inbemus salvere. Ea vero studia, quae vobis eordi sunt, gloriamur in Britannia certe Aeademiam nostram primam omnium adiuvisse. In salutis publicae ministris nominandis valent plurimum diplomata nostra, valent etiam aliarum Aeademiarum, quae, exemplo nostro ineitatae, laudis eursum eundem sunt ingressae. Hodie vero collegarum vestrorum nonnullos, qui gentium exterarum inter lumina numerantur, diplomate nostro honorifico decorare volumus. Nemini autem mirum sit, quod viros medicinae in scientia illustres iuris potissimum doctores hodie nominamus. Etenim Tullium ipsum in libris quos de Legibus composuit, scripsisse recordamini populi salutem supremam esse legem.

“(1) Primum omnium vobis praesento gentis vicinae, gentis nobiscum libertatis bene temperatae amore coniunctae eivem egregium, Parisiorum in Academia medicinae forensis professorem praeclarum, faeultatis medicae decanum dignissimum, salutis denique publicae annalium editorem indefessum. Olin Caesar omnes medicinam Romae professos civitate donavit; nos non omnes eerte, sed, habito delectu aliquo, unum e reipublicae Gallicae medicis illustrissimis, qui admirabilem in modum medicinae et iuris studia consociavit, corona nostra ob cives etiam in pace servatos libenter coronamus.

“Duco ad vos PAULUM CAMILLUM HIPPOLYTUM BROUARDEL.

“(2) Quo maiore dolore Austriae et Germaniae legatos illustres absentes desideramus, eo maiore gaudio Italiae legatum insignem praesentem salutamus. Salutamus Academiae Bononiensis, nobiscum

vetere hospitii iure coninctae, alumnus, tribus deinceps in Academiis, primum Mutinae, deinde Panormi, denique Ticini in ripa professorem, qui medicinae scientiam cum rerum antiquitus gestarum studiis feliciter consociavit, quique in Italiae scriptoribus eximiiis, non modo in Boccaccio sed etiam in Torquato Tasso, artis suae argumenta non indigna invenit. Quondam imperator quidam Romanus Roma in ipsa augurium salutis per annos complures omissum repeti ac deinde continuari inssit. Quod autem salutis publicae concilio Londinensi etiam Italia interfuit, velut augurii felicitis omen accipimus. Recordamur denique poetam antiquum urbis aeternae de nomine his fere verbis non inepte esse gloriatum :—

Roma ante Romulum fuit ;
non ille nomen indidit,
“ sed diva flava et candida,
Roma, Aesculapi filia.”

“ Duco ad vos Aesculapi ministrum fidelissimum, ALPHONSUM CORRADI.

“(3) Quis nescit urbem florentissimam quod Hungariae caput est, nomine bilingui nuncupatam, fluminis Danubii in utraque ripa esse positam. Quis non inde nobis feliciter advectum esse gaudet salutis publicae professorem insignem, virum titulis plurimis eumulatum, qui etiam de Angliae salubritate opus egregium conscripsit. Idem, velut alter Hippocrates, de aëre, aquis et locis praeclare disseruit. Olim Hippocrates ipse corona aurea Atheniensium in theatro donatus est : nos Hippocratis acmulum illustrem laurea nostra qualicunque in hoc templo honoris libenter ornamus.

“ Duco ad vos bacteriologiae cultorem acerrimum, IOSEPHUM DE FODOR ”

The guests were entertained at a luncheon given by the Cambridge Committee in the hall of King's College, and afterwards at a garden party given by The Master of Trinity.

The whole of the arrangements for the reception and entertainment of the guests at Cambridge were carried out by Dr. Donald McAlister, of St. John's College, in the most admirable manner.

On Saturday, August 15th, Dr. and Mrs. Langdon Down gave a garden party at Normansfield, Hampton Wick.

In addition to the above-mentioned, there were several other excursions and entertainments, which more than filled up the leisure of the members.

The Royal Botanical Society and the Zoological Society threw open their gardens gratuitously to members during the Congress week.

Many of the more notable buildings of London, with their art treasures, were made accessible to members by the courtesy of their proprietors.

Her Majesty the Queen accorded to all members the privilege of visiting Buckingham Palace; and Apsley House (the Duke of Wellington's), Stafford House (the Duke of Sutherland's), Grosvenor House (the Duke of Westminster's), Syon House (the Duke of Northumberland's), Dudley House (Earl Dudley's), and Bridgewater

House (the Earl of Ellesmere's), were each thrown open to members of the Congress, who largely availed themselves of these exceptional opportunities. Many of the club-houses, colleges, hospitals, asylums, and prisons, were also freely opened to members on presentation of their cards of membership.

Many local boards and municipalities arranged special excursions, in order to give to members an opportunity of viewing their municipal and sanitary works, and many private companies occupied in work related to sanitation invited members of the Congress to view their plant and processes.

Among these were Bournemouth, Birmingham, Wolverhampton, Ealing, Friern Barnet, the Metropolitan Asylums Board, the Thames Iron Works, the Cremation Society of England, the Refuse Disposal Company, Chelsea, the London County Council, Gravesend, the Lambeth, Grand Junction, Vauxhall, and East London Water Companies, and the Gaslight and Coke Company. Sir Donald Currie placed his steamship the "Drummond Castle" at the disposal of the Congress, and on August 14th, conveyed 190 guests to the Beeton Gasworks and the sewage outfall at Barking.

On Saturday, August 15th, Surgeon-General Madden and the officers of the Army Medical Staff entertained 50 members at luncheon, at the Hospital Mess, Netley. And on Sunday, August 15th, Dr. George Buchanan, the Chief Medical Officer of the Local Government Board, invited a party of 50 to join him in an excursion from Maidenhead to Henley, on board an electric launch.

On Sunday, August 16th, the Venerable Archdeacon Farrar preached a special sermon to members of the Congress in Westminster Abbey.

The following municipal and county authorities afforded to members of the Congress special facilities for viewing the sanitary works and public institutions under their care, viz. :—

The corporations of Aberdeen, Brighton, Burslem, Croydon, Carlisle, Chester, Chichester, Dover, Derby, Dublin, Eastbourne, Folkestone, Hanley, Hereford, Leicester, Liverpool, Manchester, Nottingham, Nairn, Portsmouth, Ramsgate, Selkirk, Southampton, Stafford, Stratford-upon-Avon, Salisbury, Tynemouth, Wigan, Wilton (Salisbury), York.

The county councils of London, Northumberland, and The West Riding of Yorkshire.

The vestries of Marylebone, Paddington, St. George's Hanover Square, St. James' Westminster, St. Mary's Newington, Mile End Old Town, and St. Pancras.

The Boards of Works of the districts of Holborn, St. Giles', Strand, and St. Olave's Southwark.

It would be difficult to over-estimate the services rendered to the Congress by Mrs. Priestley and the members of the Ladies' Committee, who were indefatigable in making arrangements for the comfort and amusement of the numerous lady-members of the Congress. The ladies' drawing-room in Bond Street was always thronged, and none can forget the kindness and hospitality which were lavished upon all comers.

The success of the Congress was also largely increased by the efforts of Lady Galton and other members of the Ladies' Committee who entertained foreign guests at their homes.

The Organising Committee have to acknowledge the presentation of works of great interest by several members of the Congress. Dr. Julius Lehmann, of Copenhagen, Dean of the Royal Sanitary Commission, and President of the Danish Committee, presented on behalf of his countrymen 1,700 copies of a large work (474 pages, royal octavo), entitled, "*Denmark, its Medical Organisation, Hygiene, and Demography*"; and Dr. Emile Coni, of Buenos Ayres, presented 900 copies (56 pages, small octavo) of a work entitled "*Les Progrès de l'Hygiène Publique dans la République Argentine*." These volumes have been distributed to members of the Congress, and have been greatly appreciated. Other gifts, also, of books and of apparatus were presented by individual members to the several Sections in which they were specially interested.

The Society of Arts, as administrators of the Benjamin Shaw Trust, invited the assistance of the Organising Committee in awarding two prizes, each of the value of 20*l.*, for any new invention or discovery communicated or exhibited to the Congress, having for its object the "obviating or materially diminishing any risk to life, limb, or health, incidental to any industrial occupation." One application only was made for this prize, and on its being referred to the Society of Arts, the Council of that body decided that the invention in connection with which the application was made did come within the terms of the Trust.

A very important matter in connexion with the Congress has been the printing of the papers, first separately, and ultimately in the form of "Transactions." It is evident that the expenditure involved by such a large amount of printing must be very great, and since the financial position of the Congress was necessarily a matter of doubt, it behoved the organising and finance committees to move with great caution.

In the first place, a sub-committee was formed for arranging a printing contract and generally superintending the business arrangements with the printers. This sub-committee consisted of Mr. MacAlister, the secretary of the Royal Medical and Chirurgical Society; Mr. Ernest Clarke, the secretary of the Royal Agricultural Society; and Mr. White Wallis, the secretary of the Sanitary Institute. These gentlemen had each of them large experience of printing contracts for programmes and transactions, and the Congress is greatly indebted to them for the large amount of skill and knowledge which they have brought to bear upon this most important detail of the Congress. A specification for printing was first prepared, and this was sent to some of the leading firms of London, with an invitation to them to tender for the contract. The result of this was that the printing contract was given to Messrs. Eyre and Spottiswoode, whose terms were considered to be the most favourable.

The editing sub-committee were also asked to recommend a gentleman to undertake the duty of compiling the volume of Abstracts and editing the Transactions, a duty involving much hard work as well as high literary, linguistic, and scientific attainments. In their selection of Dr. Shelly, of Hertford, for this important work, a great boon was

conferred upon the Congress. The Transactions will speak for themselves, but we feel bound to express our gratitude to Dr. Shelly for the business-like method with which he has discharged his arduous duties, and for the promptitude he has shown in dealing with the numerous points upon which it was necessary for us to confer together.

The appearance of the Transactions may by some be considered to have been unduly delayed, but those who have experience in such matters will at once recognise the difficulties when it is remembered that the authors of the various papers are literally scattered over the globe, and that to communicate with them was necessarily a slow process. The delay has certainly not been in any way attributable to the editor, who has throughout supplied the printers with manuscripts far quicker than they supplied him with proofs. An unfortunate fire which took place in the spring of the year, although it spared the property of the Congress, disarranged the establishment of Messrs. Eyre and Spottiswoode, and necessitated the thrusting aside for a time of private contracts in favour of Government printing, which was urgent.

The success of the Congress has been very largely due to the division of labour and the zeal with which each department was worked; but as the organisation of the parts became more perfect the work in the central office became steadily more arduous, until at last the mere labour of opening letters and ordering the correspondence occupied several hours daily. During the session of the Congress the paid and honorary staff amounted to more than 100 persons, and some idea of the work involved by the organisation may be gathered from the statement that 195,250 circulars, 110,310 programmes, and 20,000 invitation cards and programmes were disseminated, while the general correspondence took over 22,000 sheets of note paper and correspondence cards.

Two meetings of the Permanent Committee were held during the Session of the Congress, the first on Monday, August 10th, before the opening meeting of the Congress, when the report on the organisation of the Congress prepared by Dr. Corfield* was approved, and Sir Douglas Galton was requested to present it to H.R.H. the President of the Congress, at the opening meeting; and when Professor Fodor, of Hungary, and Professor Van Overbeek de Meÿer, of Holland, were added to the Permanent Committee for Hygiene, and Monsieur Josef Körösi, of Hungary, and Dr. Janssens, of Belgium, to the Permanent Committee for Demography; and the second on Friday, August 14th, when an official invitation from the municipal authorities of Bucharest to hold the next Congress in that city was presented by a deputation headed by Monsieur Körösi, and an unofficial invitation to hold the next Congress in Chicago in that city in 1893, was presented by Dr. Hewitt, of Minnesota, on behalf of the American Public Health Association. The Permanent Committee decided to recommend that the next Congress should be held in 1894, and not in 1893, on account of fact that the next meeting of the International Medical Congress is to be held in Rome in 1893, and they also unanimously decided (while thanking

* See Report of the Opening Meeting, Vol. I., p. 9.

Dr. Hewitt) to recommend that the invitation from the authorities of Budapest be accepted, as they thought it undesirable that the Congress should be held twice in succession in English-speaking countries.

The Permanent Committee then appointed a Sub-Committee consisting of five members, three for Hygiene, and two for Demography, to prepare a scheme for the organisation of future congresses and for the representation of the various countries on the Permanent Committee. The following members were appointed to serve on the Sub-Committee:— Dr. Brouardel (France), Professor Fodor (Hungary), and Professor Corfield (England), for Hygiene, and Monsieur Körösi (Hungary) and Dr. Janssens (Belgium), for Demography. The Sub-Committee was instructed to prepare a report to be presented at the next meeting of the Permanent Committee.

It was decided at the closing meeting of the Congress that the next Congress should be held at Budapest in 1894.

W. H. CORFIELD,	}	Hon. Secretaries to the Organ- ising Committee.
Hon. Foreign Secretary		
G. V. POORE,		
Hon. Secretary-General		

December 1892.

APPENDIX.

The following facts dealing with certain details of organisation are given with the hope that they may prove useful to the organisers of future Congresses.

There are difficulties connected with such a gathering which are inseparable from it, and which it is impossible to entirely overcome.

In the first place, there is no means of knowing the exact number of persons which will have to be provided for. Every means was used to persuade intending members to make early application for tickets, and with very considerable success; but the numbers who joined at the last moment were sufficient to upset any estimate which might have been made.

The opening day of a large Congress is necessarily a day of some confusion, but one may claim the credit of having made the fullest arrangements possible for dealing with a large concourse of persons.

For our reception room we selected *the biggest room at our disposal*, viz., the library of the University of London, which measures 70 ft. × 50 ft., and is admirably lighted from above. In the centre of this room was erected a rectangular counter enclosing an open area, and with a minimum space all round it of 10 ft., so as to allow of free circulation. This counter had an internal measurement of 108 ft., and was divided into 24 compartments of 4 ft. 6 ins., with a clerk at each compartment, except at that which served for an entrance. The vertical uprights which marked the 23 divisions of the counter were connected at their upper ends by a wire, and from this wire in the intervals between each pair of uprights were suspended placards (printed *on both sides*) indicating the letter or letters of the alphabet with which each clerk had to deal, or the

name of the excursion or entertainment, tickets for which were to be got at any particular division of the counter. This arrangement answered well, and it is probable that no other arrangement would have proved equally efficacious. At least 50,000 documents and letters were distributed over this counter during the session of the Congress. It was said to look bare, and by some I was urged to have it draped. This was impossible, because in order that the counter should fulfil its purpose, it was necessary that a person entering the room in which the counter was situated should be able to see not only the side of the counter with its placards which was nearest to him, but also that which was farthest from him. This he was able to do at a glance, and thus to select that particular division of the counter which dealt with the initial letter of his own name and where documents would be awaiting him. The bareness of the counter, and the very small extent to which it obstructed the line of vision, was really the secret of its success. The space enclosed by the counter enabled the clerks to communicate with each other or with the other officials with the greatest ease, and it made these latter very accessible and visible to all members of the Congress entering the reception room. The reception room was opened on Saturday, the 8th of August, at 10 a.m., and as we were only able to get possession of the room on the afternoon of the 9th, it will be admitted that great credit is due to Mr. Affleck, the contractor for the temporary fittings, for the expeditious manner in which his work was carried out.

The reception room served for the display of a fine collection of architectural drawings, which were hung under the superintendence of Mr. Thos. W. Cutler, F.R.I.B.A., one of the honorary secretaries of the Architectural Section, and the designer of the Congress badge. The Congress is much indebted to Mr. Cutler for a great deal of help in various directions; and, personally, I feel much indebted to him for a great deal of valuable advice, which was always freely and cheerfully given whenever I had occasion to lay his technical and artistic knowledge under contribution.

The inaugural meeting of the Congress, under the Presidency of H.R.H. the Prince of Wales, took place at St. James's Hall at 3 p.m. on Monday, August 10th. The admission to this meeting was by special tickets, which were issued to members on payment of their member's fee. The main reason for having a special ticket for this meeting was to offer an inducement to members to complete their membership as early as possible. As the Congress opened on a Monday, and as in England Sunday is a *dies non*, it was feared that without some inducement to do otherwise members would put off their applications for tickets until the opening day, and in that case it would have been a physical impossibility to issue the Congress tickets with sufficient rapidity, for it was calculated that a clerk could not issue more than 20 tickets in an hour, and the large staff of 23 clerks employed could not have issued more than 460 tickets per hour, even supposing that no further demands had been made upon them. The special ticket for St. James's Hall had the desired effect, and a very large proportion of the Congress tickets were issued before the day of opening.

St. James's Hall has seats for 2,132 persons, and as there were some 3,000 members, lady members, and representatives of the Press, it is evident that many were unable to find accommodation. This was a regrettable circumstance, but was nevertheless unavoidable. Every

endeavour was made to provide persons of distinction with places of honour; but here again complete success was impossible, and in illustration of the difficulties, one may point to the fact that, almost at the last moment, a sudden demand was made to find suitable places for two ambassadors and 41 other persons of distinction who had been specially delegated to attend the Congress by foreign Governments and municipalities.

St. James's Hall, at the opening meeting, was packed as full as it would hold, and although it was not possible to treat all our distinguished guests with as much consideration as one would have wished, one can point to the enthusiasm and good temper which characterised the inaugural meeting as evidence that the inconvenience to which the few were subjected were recognised as inevitable results of the great success of the gathering. No one who was present is likely to forget the scene, when, precisely at 3 o'clock, the National Anthem announced the arrival of the Prince, and the large audience rose and cheered His Royal Highness as he took the presidential chair. The details of this meeting will be found in Volume I. of the Transactions.

The reception room established in the University of London was intended simply as a place for transacting business, for distributing documents of various kinds, and for making arrangements for the numerous entertainments and excursions. It was not intended as a place for lounging and for conversation, and intentionally no arrangements were made to encourage loitering, which would have seriously interfered with locomotion. The entrance hall and corridor formed a *place des pas perdus*, and for those who wished to write, correct proofs, talk with their friends, and smoke, a tent was provided, amply fitted with tables, easy chairs, &c., in the quadrangle of Burlington House, at the very doors of the meeting rooms of six of the Sections. This tent was provided and fitted by the Military Equipment Company, and although it did not present a very picturesque appearance from the outside it was full of comfort inside, and most thoroughly answered its purpose. It may be mentioned that this tent necessitated a great deal of preliminary arrangement. The consent had to be obtained not only of the Board of Works, but also of the societies whose rooms abutted on the quadrangle, and these were obtained only on the condition that the macadam should not be disturbed, and that no poles or pegs should be driven into the ground. It was on this account that a tent of a special pattern had to be selected, and it was not possible to get a tent which fulfilled the obligatory conditions, and which at the same time, presented an ornamental appearance from the outside. The arrangements for this tent were only completed at the close of the week immediately preceeding the opening of the Congress, and thus it came about that no notice of it could be inserted in the printed programmes.

A very important matter, and one which entailed a great deal of labour, was the preparation and the keeping up of the list of members who had inscribed their names and addresses in the reception room. At four o'clock each day the names of those who had inscribed their names were printed on a separate list; and directly sufficient copies of this list had been struck off, the names were distributed to their proper alphabetical position in the general list, and on each day of the Congress 2,000 copies of the list, complete up to the previous evening, were

distributed for the information of members and others. This list appeared each morning without fail, a fact which is greatly to the credit of my assistant, Mr. Whalley, and the printers, Messrs. Boot & Son. These lists were printed on slips (printed on one side only), and the completed lists were made up by fastening the slips together at one angle. This method was adopted as the simplest and quickest under the circumstance.

G. V. P.



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- CLARK, Andrew, F.R.C.S. (Middlesex Hospital).
- CLARKE, Dr. William W. (Northampton County Council).
- CLARKE, J. Mitchell, M.A., M.B., M.R.C.P. (Bristol Medical School).
- CLARKE, T. Chatfield, F.S.I., F.R.I.B.A. (Surveyors' Institution).
- CLEATON, J. Davies, M.R.C.S. (Commissioners in Lunacy).
- CLEGG, J. H. (Corporation of Stockton-on-Tees).
- CLEWS, J. H. (Poplar Board of Works).
- CLIFT, M. L. (Vestry of St. Luke's, Middlesex).
- CLINTON, Lord (Devon County Council).
- CLOUGH, W. O., F.S.A.A., F.R.G.S., F.S.S. (Society of Accountants and Auditors).
- COHEN, Councillor S. (Corporation of Hull).
- COLAM, W. N. (Society of Engineers).
- COLLINGWOOD, Councillor (Kesteven County Council).
- COLLINS, E. H., F.S.A.A. (Society of Accountants and Auditors).
- COLLINS, H. H., F.R.I.B.A. (Paddington Vestry).
- CONNOR, C. C. (Corporation of Belfast).
- COOK, F. Rider (Society of Chemical Industry).
- COOKSON, Edward Hatton, J.P. (Liverpool Corporation).
- COONEY, Dr. J. Edwin (Fulham Vestry).
- COOPER, John H. (Corporation of Gravesend).
- CORNISH, Surgeon-General W. R., C.I.E., F.R.C.S. (College of State Medicine, University of Madras).
- COSGRAVE, E. McDowel, M.D., F.K.Q.C.P. (Royal Academy of Medicine, Ireland).

- COSTELLOE, B. F. C. (London County Council).
COWDEROY, J. T. (Corporation of Kidderminster).
COUZENS, George E. (Portsea Island Union Board of Guardians).
CRAIG-BROWN, Provost (Corporation of Selkirk).
CRAWFORD, Councillor Robert (Corporation of Glasgow).
CROMBIE, J., M.B. (West London Medico-Chirurgical Society).
CRONSHAW, Mr. Alderman (Corporation of Heywood).
CROOKES, William, F.R.S. (Chemical Society).
CROSBY, Thomas Boor, M.D. (Corporation of City of London).
CUDLIP, Alderman (Corporation of Portsmouth).
CUMING, Professor James, M.D., F.K.Q.C.P. (Queen's College).
CUNNINGHAM, George, M.A., D.M.D., L.D.S. (National Dental Hospital).

DAKIN, Councillor W. Howard (Corporation of Norwich).
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DAVIES, Benjamin, M.D., F.R.C.S. (Corporation of Newport, Mon.).
DAVIES, D., M.B., D.P.H. (British Medical School).
DAVIES, D. S., M.B., D.P.H. (Bristol Medical School).
DAVIES, Ebenezer, M.R.C.S. (Corporation of Swansea).
DEMPSEY, Alexander, M.D., J.P. (Ulster Medical Society).
DEVERILL, John (Slough Local Board).
DEWAR, Professor James, F.R.S. (Society of Chemical Industry).
DICKINS, A. L., J.P. (Corporation of Salford).
DICKINSON, W. B., F.R.C.V.S. (Lincolnshire Veterinary Medical Association).
DICKINSON, W. H., M.D., F.R.C.P. (Pathological Society).
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DIXON, F. E. (Walton-le-Dale Local Board).
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DUCKWORTH, Sir Dyce, M.D., F.R.C.P. (Clinical Society of London).
DUNCAN, Eben., M.D. (Philosophical Society of Glasgow, and Faculty of Physicians and Surgeons, Glasgow).
DUNNE, David B., LL.D. (Royal University of Ireland).
DUPRÉ, A., Ph.D., F.R.S. (Westminster Hospital).

- DURHAM, Arthur, F.R.C.S. (Guy's Hospital).
- EDDISON, Mrs. J. E. (Yorkshire Ladies' Council of Education).
- EDDISON, Professor J. E., M.D. (Yorkshire College).
- EDGE, J. Wilcox (Corporation of Burslem).
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- EGERTON, Hon. A. de Tatton, M.P. (St. George's, Hanover Square, Vestry).
- ELFORD, John, M.S.A. (Corporation of Poole).
- ELLIS, Councillor J. Baxter (Corporation of Newcastle-on-Tyne).
- EMDEN, Walter (Strand Board of Works).
- EMETT, Councillor Philip S. (Corporation of Ramsgate).
- ERICHSEN, John Erie, LL.D., F.R.S. (University College).
- EVANS, John, P.S.A., D.C.L., LL.D., F.R.S., F.G.S. (Royal Geological Society).
- EVANS, R. W. (St. Marylebone Vestry).
- EVANS, Dr. Evan (Llanelly Union Rural Sanitary Authority).
- EWART, Alderman (Corporation of Brighton).
- EYRE, Dr. J. J. (Beckenham Local Board).
- FENN, Mr. Ambrose (Woolwich Local Board).
- FARQUHARSON, Lieut.-Col. J., C.B., R.E. (Ordnance Survey Department).
- FAVELL, William F., M.R.C.S., J.P. (School of Medicine, Sheffield).
- FAYRER, Sir Joseph, K.C.S.I., M.D., F.R.S. (Victoria Institute).
- FENNING, James (Merchant Tailors' Company).
- FENWICK, Bedford, M.D. (British Gynæological Society).
- FENWICK, Mrs. Bedford (British Nurses' Association).
- FENWICK, Mrs., of Leeds (Yorkshire Ladies' Council of Education).
- FEVERSHAM, The Earl of (Royal Agricultural Society), Helmsley, Yorks.
- FIDLER, Professor T. Claxton, M.Inst.C.E. (University, College, Dundee).
- FINCH, Alderman C.B., M.A. (Corporation of Cambridge).
- FINLAY, David W., M.D., D.P.H. (Public Health Medical Society, and Clinical Society of London).
- FITZGIBBON, Henry, F.R.C.S.I. (College of Surgeons, Ireland).
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- FORD, Alderman G. P. (Corporation of Burslem).
- FORD, Alderman W. (Corporation of Nottingham).
- FORREST, Alexander (Laneashire County Council).
- FORTESCUE, Earl (Metropolitan Public Gardens Association).
- FOSTER, Sir Walter B., M.D., F.R.C.P., M.P. (British Medical Association).
- FOWLER, F. H. (Strand Board of Works).

- FOWLER, F., F.S.I. (Sheffield Society of Architects and Surveyors).
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- FRANKLAND, Professor Percy F., Ph.D., B.Sc. (University College, Dundee).
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- FRASER, Professor J. R., M.D., F.R.S. (University of Edinburgh).
- FREER, B., M.R.C.V.S. (Delegate from Lincolnshire Veterinary Medical Association).
- FRY, Frederick (Merchant Taylors' Company).
- FYFE, Peter (Sanitary Association of Scotland).
- GAIRDNER, Professor, M.D., LL.D. (University of Glasgow, and Glasgow Pathological Society).
- GALLOWAY, Alderman George, J.P. (Corporation of Preston).
- GALTON, Sir Douglas, K.C.B., D.C.L., LL.D., F.R.S.
- GALVIN, Barry C. (Cork Corporation).
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- GARSON, J. G., M.D. (Anthropological Society).
- GAYTON, Dr. W. (Med. Supt., North-Western Hospital).
- GEIKIE, Archibald, LL.D., F.R.S. (Geological Survey, United Kingdom).
- GIBBON, Septimus, M.D. (Holborn District Board of Works).
- GIGNER, John (Chelsea Vestry).
- GILMOUR, H. B. (Royal Infirmary, Liverpool), Aigburth, Liverpool.
- GILPIN, Frank, M.R.C.S., L.S.A. (Corporation of Stratford-on-Avon).
- GLAISTER, John, M.D. (Faculty of Physicians and Surgeons, Glasgow).
- GOOCH, F.L., F.R.C.V.S. (Lincolnshire Veterinary Medical Association).
- GOODALL, J. H., M.R.C.V.S. (Lincolnshire Veterinary Medical Association).
- GOODWIN, George A. (Society of Engineers).
- GORDON, Surgeon-General C. A., C.B., M.D. (Victoria Institute).
- GOUGH, H. R. (Society of Architects).
- GOULD, A. Pearce, M.B., F.R.C.S., L.R.C.P. (Royal College of Surgeons).
- GRAHAM, Alderman, M.D. (Corporation of Belfast).
- GRIFFITH, Captain J. C., J.P. (Corporation of Cheltenham).
- GRIFFITH, John Charles (Gloucester County Council).
- GRIFFITH, Samuel (Ynyscynhaiarn Local Board).
- GRIFFITHS, Bailie Azariah (Borough of Falkirk).
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- GRIMSHAW, T. W., M.D., F.R.C.P.I. (King's and Queen's College, Dublin).
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GUNN, R. Marcus, F.R.C.S. (Ophthalmological Society).

GÜNTHER, Dr. H. (Local Board of Teddington and Hampton Wick).

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HADLEY, Joseph (Sanitary Assurance Association).

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HALL, Joseph (Corporation of Cheltenham).

HALL, W. Carby (Leeds and Yorkshire Architectural Society).

HAMILTON, Rowland (Royal Statistical Society).

HAMMERSLEY, Alderman (Corporation of Hanley).

HANCOCK, Washton (North of England Veterinary Medical Association).

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HARRIS, Sir George D. (Paddington Vestry).

HARRISON, Councillor (Corporation of Derby).

HARRISON, R. J. (Corporation of Derby).

HART, Ernest (National Health Society).

HARTLEY, R. N., M.B., B.Sc. (Yorkshire College).

HARTY, Spencer (Institution of Civil Engineers, Ireland).

HARVEY, Dr. (Warwickshire County Council).

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HAY, Professor Matthew, M.D. (Aberdeen University).

HEATON, C. W. (Charing Cross Hospital).

HEDGES, Frances E. (Corporation of Wallingford).

HENDRIKS, Augustus (Institute of Actuaries).

HENDRIKS, F., F.I.A. (Royal Statistical Society).

HENSLEY, P. J., M.A., M.D., F.R.C.P. (St. Bartholomew's Hospital).

HERRIES, The Lord (Beverley County Council).

HESLOP, T. H. B. (County Surveyors' Society).

HIBBERT, Right Hon. J. T. (Lancashire County Council).

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HILL, Dr. James R. (Fulham Vestry).

HILL, M. Berkeley, M.B., F.R.C.S. (Royal College of Surgeons).

HILL, Rev. R. J. (Kirkby Moorside Rural Sanitary Authority).
HILLS, Arnold F. (Vegetarian Federal Union).
HIND, Alderman R. (Corporation of Stockton-on-Tees).
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HIRST, Alderman R. (Corporation of Huddersfield).
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HOBHOUSE, Sir Charles Parry, Bart. (Wilts County Council).
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HOLDEN, Councillor J.P. (Corporation of Preston).
HOLDEN, John, F.R.I.B.A. (Manchester Society of Architects).
HOLMES, Timothy, F.R.C.S. (London Sanitary Protection Association).
HOPE, Edward W., M.D., B.Sc. (Victoria University, Manchester, and Liverpool Medical Institution).
HORN, T. (Vestry of St. Margaret and St. John, Westminster).
HORSLEY, Victor, F.R.S., F.R.C.S. (Royal Institute of Great Britain).
HORTON, Benjamin (Corporation of Hythe).
HOTBLACK, Councillor G. Snelling (Corporation of Norwich).
HOWARD, William Henry (Worcestershire County Council).
HOWSON, F. T. (Corporation of Huntingdon).
HUGGETT, Thomas (St. Mary Abbots, Kensington, Vestry).
HULKE, J. W., F.R.S. (Ophthalmological Society).
HUMPHREY, Sir George M., M.D., F.R.S. (Cambridge University).
HUNTING, W., F.R.C.V.S. (Central Veterinary Medical Society).
HUNTBACH, M. (Corporation of Hanley).
HUNTER, A. (North of England Veterinary Medical Association).
HUTTON, H. R., M.A., M.B. (Manchester and Salford Sanitary Association).

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IMLACH, Francis Brodie, F.R.C.S.E. (College of Surgeons, Edinburgh).
INNOCENT, C. J., F.R.I.B.A., F.S.I. (Sheffield Society of Architects and Surveyors).
ISAACS, M. (Vestry of St. Margaret and St. John, Westminster).
INNES, Lieut.-Gen. J. J. McLeod, R.E., V.C. (London Sanitary Protection Association).
INGHAM, Henry (Walton-le-Dale Local Board).

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JACKSON, Arthur, M.R.C.S. (Sheffield Medical Chirurgical Society).
JACKSON, William (St. Giles' Vestry, Camberwell).
JACOB, E. H., M.A., M.D. (Leeds and West Riding Medical Chirurgical Society).

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- JEFFERY, George Augustus, M.D. (East Sussex County Council).
- JESSOP, Councillor Wm. Hy. (Corporation of Huddersfield).
- JOHNSON, B. T. (Poplar Board of Works).
- JOHNSON, John George, M.D. (Wilts County Council).
- JOHNSON, S. G. (Corporation of Nottingham).
- JOHNSTON, Major D. A., R.E. (Ordnance Survey Department).
- JONES, A. Emrys, M.D., M.R.C.S. (Manchester and Salford Sanitary Association).
- JONES, C., A.M.Inst.C.E. (Incorporated Association of Municipal and County Engineers).
- JORDAN, Councillor James (Corporation of Huddersfield).
- JOSEPH, Dr. J. J. (Vestry of St. Mary, Battersea).
- JUDGE, Mark H., A.R.I.B.A. (Paddington Vestry).
- KAYE, James Robert (Corporation of Huddersfield).
- KEALEY, J. R., M.D., M.R.C.S. (Gosport and Alverstoke Local Board).
- KEEVIL, E. C. (St. James', Westminster, Vestry).
- KEITH, James (Corporation of Arbroath).
- KELLY, Professor C., M.B. (King's College, London).
- KENNET-BARRINGTON, Sir V. H. B. (Metropolitan Asylums Board).
- KERR, Norman, M.D. (Bread and Food Reform League).
- KINGDON, James Abernethy (Grocers' Company).
- KINGSCOTE, Sir R. Nigel Fitzhardinge, K.C.B. (Gloucester County Council).
- KINKEAD, Richard J., B.A., M.D., J.P. (Queen's College, Galway).
- KINSEY-MORGAN, A., M.R.C.S., L.S.A. (British Medical Society).
- KLEIN, Professor E., M.D., F.R.S. (College of State Medicine, and Society of Apothecaries).
- KNIGHTLEY, Lady (Ladies Sanitary Association).
- KNILL, Alderman Stuart (Corporation of City of London).
- KNOTT, Charles, M.R.C.P., M.R.C.S. (Portsea Island Union Board of Guardians).
- KIRTLEY, Councillor (Corporation of Sunderland).
- LACEY, F. W., A.M.Inst.C.E. (Corporation of Bournemouth).
- LAMBERT, Rev. J. Malet, LL.D. (Hull and District Sanitary Association).
- LANE, Rev. Charlton George (Mercers' Company).
- LAW, W. George (Corporation of Newcastle-on-Tyne).
- LAWRENCE, Sir Trevor, Bart., M.P. (Surrey County Council).
- LEEKINGS, Joseph J. (Corporation of Gloucester).
- LENT, J. Watts (Corporation of Colchester).

- LEESON, Councillor R. J. (Northumberland County Council).
LEGARD, Sir Charles, Bart. (Beverley County Council).
LEGG, Samuel C., A.S.A. (Association of Public Sanitary Inspectors).
LEIGH, The Lady (Ladies' Sanitary Association).
LISTER, Sir Joseph, Bart., M.D., F.R.C.S., LL.D., F.R.S. (Edinburgh Medical Chirurgical Society).
LITTLEJOHN, Harvey, M.B., B.Sc. (Edinburgh Royal Medical Society, and Corporation of Sheffield).
LITTLEJOHN, Henry Duncan, M.D., F.R.C.S.E. (College of Surgeons, Edinburgh, and Edinburgh Corporation, and Society of Medical Officers of Health for Scotland).
LOBLEY, Joseph, M.Inst.C.E. (Corporation of Hanley).
LOE, J. S., M.R.C.S. (Corporation of Leeds).
LONGSTAFF, G. B. (London County Council).
LOTT, Alfred (Bermondsey Vestry).
LUFF, Arthur P., M.D., M.R.C.P. (St. Mary's Hospital, and Harveian Society).
- MACALISTER, J. Y. W. (Library Association).
MACCORMAC, Sir William, F.R.C.S. (St. Thomas' Hospital).
MACFARLANE, A. W., M.D., F.R.C.P. (Royal College of Physicians, Edinburgh).
MACHELL, Alderman (Corporation of Stalybridge).
MACKENZIE, Dr. William Leslie (Kirkeudbright County Council).
MACKENZIE, Stephen, M.D., F.R.C.P. (London Hospital).
MACLAGAN, Professor Sir Douglas, M.D. (University of Edinburgh).
MACONNACHIE, Councillor George (Corporation of Aberdeen).
MACPHERSON, Councillor (Corporation of Stalybridge).
MAGUIRE, William Robert, A.M.Inst.C.E. (Institute of Civil Engineers, Ireland).
MAJOR, Alderman J. P. (Corporation of Wolverhampton).
MANLEY, John, M.R.C.S. (Queen's College, Birmingham).
MANSENGH, James, M.Inst.C.E. (Institution of Civil Engineers).
MARCET, William, M.D., F.R.C.P., F.R.S. (Royal Meteorological Society, and Physiological Society).
MARGERISON, G. (St. Marylebone Vestry).
MATTHEWS, Wm., M.Inst.C.E. (National Registration of Plumbers, South Hants, and Isle of Wight District Council).
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MARSDEN, Councillor (Corporation of Derby).
MARSH, Lieut.-Col. J. T., R.E. (Royal United Service Institution).
MARSHALL, P. P. (Corporation of Norwich).
MARTEN, Edward B., M.Inst.C.E. (Institution of Mechanical Engineers).

- MARTINEAU, Councillor R. F. (Corporation of Birmingham).
- MASON, J. M., M.D., D.P.H. (Corporation of Hull).
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- MATHEWSON, Lord Provost (Corporation of Dundee).
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- MCCALL, Professor J. (Royal College of Veterinary Surgeons).
- MCDONNELL, James (Statistical and Social Inquiry Society of Ireland).
- MCDUGALL, Councillor Alexander, J.P. (Corporation of Manchester).
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- MICHELLI, P. (Hospitals Association).
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- MILNE, Councillor (Corporation of Manchester).
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- MOORE, H. P. (Corporation of Andover, Hants).
- MOORE, John William, M.D., F.R.C.P.I. (King's and Queen's College, Edinburgh).
- MOORE, Surgeon-General Sir Wm., K.S.C.I. (Nominated by the Government of India for the Presidency of Bombay).
- MOORE, William Withiers, M.D. (East Sussex County Council).
- MORGAN, Professor J. E., M.D., F.R.C.P. (Owen's College, Manchester).
- MORLAND, Charles Coleby (Corporation of Croydon).
- MORLEY, The Earl of (Devon County Council).
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- MORTON, Alderman (Corporation of Chelmsford).
- MORTON, Councillor Hugh (Corporation of Newcastle-on-Tyne).
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- MUMBY, Colonel C. (Gosport and Alverstoke Urban Sanitary Authority and Gosport and Alverstoke Local Board).
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- MUNDAY, Major H. (Vestry of St. Pancras).
- MURCH, P. (Corporation of Portsmouth).
- MURPHY, William Adams (Vestry of St. Giles, Camberwell).
- MURPHY, Shirley F., M.R.C.S. (London County Council and Epidemiological Society).

- MURRAY, A., F.C.A. (Society of Chartered Accountants).
MURRAY, Albert E. (Secretary Royal Institute of Architects of Ireland).

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NIXON, Christopher J., M.D., LL.D. (Royal University of Ireland, and Medical Faculty of the Catholic University of Ireland).
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NOTTER, Surgeon-Major J. L., M.D. (Royal United Service Institution).
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PAGET, Sir George E., K.C.B., D.C.L., F.R.S. (Cambridge University).
PAIN, Coard S. (Northern Sanitary Association).
PALIN, Dr. H. Venables (Corporation of Wrexham).
PALMER, Councillor H. (Corporation of Hauley).
PALMER, George (Mercers' Company).
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- PATERSON, W. B., F.R.C.S., L.D.S. (British Dental Association).
- PEARCE, R. S. (Corporation of Southampton).
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BENNETT, W. B. G.

HARRIS, Dr. A. W.

PEARCE, R. S.

Southampton Medical Society :

NOTTER, Professor Lane, M.D.

DAVIES, A. M., M.R.C.S., L.S.A.

**South Hants and Isle of Wight District Council, National
Registration of Plumbers :**

MATTHEWS, Wm., M.Inst.C.E.

Staffordshire County Council:

BAGNALL, W. G.

BROUGH, W. S.

Staybrildge, Corporation of:

RIDYARD, Joseph (Mayor).

MACHELL, Alderman.

MACPHERSON, Councillor.

State Medicine, College of:

CORNISH, Surgeon-General W. R., C.I.E., F.R.C.S.

KLEIN, Professor E., M.D., F.R.S.

Statistical Society, Royal:

HAMILTON, Rowland.

HENDRIKS, F., F.I.A.

Stockton-on-Tees, Corporation of:

APPLETON, R. H.

CLEGG, J. H.

HIND, Alderman R.

Strand Vestry:

EMDEN, Walter.

FOWLER, F. H.

MATHESON, Dr. F.

Stratford-on-Avon, Corporation of:

CAMPBELL, A. H., A.M.Inst.C.E.

GILPIN, Frank, M.R.C.S., L.S.A.

Sunderland, Corporation of:

RICHARDSON, Councillor S., J.P.

KIRTLEY, Councillor.

BYERS, Councillor.

Surgeons, Royal College of:

GOULD, A. Pearce, M.B., F.R.C.S., L.R.C.P.

HILL, M. Berkeley, M.B., F.R.C.S.

Surgeons, Royal College of, Edinburgh (*see* Edinburgh).

Surgeons, Royal College of, Ireland (*see* Ireland).

Surrey County Council:

EGERTON, Admiral the Hon. F.

LAWRENCE, Sir Trevor, Bart., M.P.

SEATON, Edward, M.D., F.R.C.P.

Surveyors' Institute, The.

CLARKE, T. Chatfield, F.S.I., F.R.I.B.A.

SHOPPEE, Charles J., F.S.I., F.R.I.B.A.

Sussex (East) County Council, Lewes :

JEFFERY, G. Aug., M.D.

MOORE, W. Withers, M.D.

Sussex (West) County Council, Lewes :

BOSTOCK, Edward Ingram.

RALLI, Alexr. Antonio.

Sutherland, County Council of :

SUTHERLAND, D.G., M.B., B.Sc.

Swansea, Corporation of :

DAVIES, Ebenezer, M.R.C.S.

Trinity College, Dublin :

ABRAHAM, Phineas Simon, M.A., M.D.

Ulster Medical Society :

DEMPSEY, Alexander, M.D., J.P. (President)

O'NEILL, Henry, M.D. (Treasurer).

BYERS, John W., M.A., M.D.

United Service Institution, Royal :

MARSH, Lieutenant-Colonel J. T., R.E.

NOTTER, Surgeon-Major J. L., M.D.

University College, Liverpool (*see* Liverpool).**University College, London :**

ERICHSEN, John Eric, LL.D., F.R.S. (President).

POORE, Professor G. Vivian, M.D., F.R.C.P.

Vegetarian Federal Union :

HILLS, Arnold F.

MAYOR, Professor John E. B., M.A.

Veterinary Medical Association, North of England :

HANCOCK, W. Ashton.

HUNTER, A.

NISBET, J. B.

Veterinary Medical Association, South Durham and North Yorkshire :

PICKERING, G. T., F.R.C.V.S.

STEVENS, F. R., M.R.C.V.S.

AWDE, W., F.R.C.V.S. (Hon. Sec.).

Veterinary Medical Society, The Central :

SAMPSON, F. G., M.R.C.V.S.
HUNTING, W., F.R.C.V.S.
RAYMOND, F., F.R.C.V.S.
PEMBERTHY, Professor, F.R.C.V.S.
ROGERS, H. G. (Sec.).

Veterinary Surgeons, Royal College of :

AXE, Professor J. W., M.R.C.V.S.
MCCALL, Professor J., President R.C.V.S.

Victoria Institute of Great Britain :

FAYRER, Sir Joseph, K.C.S.I., M.D., F.R.S.
GORDON, Surgeon-General C. A., C.B., M.D.

Victoria University, Manchester (*see* Manchester).

Wallingford, Corporation of :

HAWKINS, Henry.
HEDGES, Francis E. (Town Clerk).

Walton-le-Dale Local Board :

INGHAM, Henry (Chairman).
SHARPLES, Dr.
DIXON, F. E. (Clerk).

Warwickshire County Council :

HARVEY, Dr.
ROLLASON, H.

West Ham, E., Corporation of :

HAY, Alderman George.
SANDERS, Charles, M.B., M.R.C.S.

West London Medico-Chirurgical Society :

ALDERTON, T. Gunton, L.R.C.P., M.R.C.S.
CROMBIE, J., M.B.

Westminster Hospital :

ALLCHIN, W. H., M.B., F.R.C.P.
DUPRÉ, A., Ph.D., F.R.S.

Whitechapel, Board of Works :

ILSLEY, George.
RARAMELLI, L. W.

Wiltshire County Council :

HOBHOUSE, Sir Charles Parry.
JOHNSON, John Geo., M.D.

Wolverhampton, Corporation of :

JACKSON, Alderman Vincent, F.R.C.S., J.P.

MAJOR, Alderman, J.P.

Women, London School of Medicine for :

BLACKWELL, Dr. Elizabeth.

THORNE, Mrs. Isabel (Hon. Sec.).

Woolwich Local Board :

FENN, Mr. Ambrose.

Worcester County Council :

HASTINGS, G. W., M.P.

HOWARD, Henry W.

FOSBROOKE, George H., M.R.C.S., D.P.H.

Wrexham, Corporation of :

PALIN, Dr. H. Venables (Mayor).

Yeovil Town Council :

GARLAND, E. C., L.S.A., M.O.H.

ARMYTAGE, W. K. L.

Ynyscynhaiarn Local Board :

GRIFFITH, Samuel.

Yorkshire College, Leeds :

EDDISON, Professor J. E., M.D.

HARTLEY, R. N., M.B., B.Sc.

Yorkshire Ladies' Council of Education :

EDDISON, Mrs. J. E.

FENWICK, Mrs.

HALL, Miss.

ROBINSON, Miss.

Yorkshire Philosophical Society :

NORTH, S. W., M.R.C.S.

THOMPSON, Richard.

Zoological Society :

FLOWER, Professor W. H., C.B., LL.D., F.R.S.

SCLATER, P. Lutley, M.A., Ph.D., F.R.S.



ALPHABETICAL LIST OF INDIAN AND CEYLON DELEGATES.

ADAM, Sir Frank Forbes, C.I.E. (Bombay Chamber of Commerce, Bombay Millowners' Association).

BAHADHURJI, Dr. K. N. (Bombay Millowners' Association, Bombay Medical Union).

BEAUMONT, T. L. F. (Karachi Chamber of Commerce).

BIDIE, Surgeon-General G., M.D., C.I.E. (Government of Madras and University of Madras).

BROOKES, T. W. (Calcutta Trades Association).

BROWNE, Surgeon-Major S. H. Browne, Principal of the Lahore Medical College (Government of the Punjab and Punjab University).

BHOWNAGGREE, Mancharjee M., C.I.E. (The Maharaja of Bhavnagar).

BOIS, Fred (Ceylon Chamber of Commerce).

BOSANQUET, R. A. (Ceylon Chamber of Commerce).

CAITHNESS, J. C. (Calcutta Trades Association).

COTTON, H. J. S., B.C.S. (Municipal Corporation of Calcutta).

CORNISH, Surgeon-General W. R., F.R.C.S., C.I.E. (University of Madras).

CROMBIE, Dr. A. (University of Calcutta).

CUNNINGHAM, Surgeon-Major D. D., M.B. (Government of Bengal).

COOK, Surgeon-General Henry, F.R.C.P. (University of Bombay).

CARTER, Deputy-Surgeon Vandyke (University of Bombay).

CLARKE, O. D., A.M.I.C.E. (Municipality of Rangoon).

CAMPBELL, Sir G. W. R., K.C.M.G. (Municipal Council of Colombo).

COOPER, Lieut.-Colonel Harry (National Association for Supplying Female Medical Aid to the Women of India).

DE RENZY, Surgeon-General A. C. C., C.B. (Indian Tea Districts Association).

FARQUHAR, Deputy-Surgeon-General W., M.D. (Government of Madras).

FERNANDO, Dr. Solomon (Government of Ceylon, and Ceylon Medical College).

FRANCIS, Surgeon-General C. R., M.B. (National Indian Association), late Principal of the Medical College, Calcutta.

GRIFFITH, Brigade-Surgeon G. (Government of North-West Provinces and Oudh).

GIMLETTE, Surgeon G. H. D., M.D. (State of Rewa).

GREGORY, The Right Hon. Sir W. H., K.C.M.G. (Municipal Council of Colombo).

GRENIER, The Hon. Sir S. (Municipal Council of Colombo).

HARRISON, Sir Henry (University of Calcutta).

HENDLEY, Surgeon-Major T. H., C.I.E. (Rajpootana).

HUGHES, A. (North-West Provinces and Oudh).

HUNTER, Sir Wm. W., K.C.S.I. (Mahomedan Literary Society of Calcutta).

HARVEY, Brigade-Surgeon Robert, M.D. (Government of India).

JONES, S. G. (Municipality of Rangoon).

KING, Brigade-Surgeon H. (University of Madras).

KNIGHT, J. B., C.I.E. (Calcutta Trades Association).

LANCASTER, Surgeon-Major John, M.B. (Municipal Council of Vellore District Local Fund Board of North Arcot).

LEDGARD, H. (Upper India Chamber of Commerce).

LEITNER, Dr. (East India Association, and Mahomedan Literary Society, Calcutta).

LYON, Brigade-Surgeon J. B., M.R.C.S. (University of Bombay).

MCCAW, W. J. M. (Bengal Chamber of Commerce).

MEADE, General Sir Richard, K.C.S.I., C.I.E. (East India Association).

MOORE, Surgeon-General Sir W. J., K.C.I.E. (Government of Bombay).

MACKWOOD, F. M. (Ceylon Chamber of Commerce).

MITCHELL, W. W. (Ceylon Chamber of Commerce).

MCGANN, Brigade-Surgeon T. J. (State of Mysore).

MATTHEWS, H. M., M.I.C.E. (Municipal Corporation of Rangoon).

OLLIVANT, E. C. K., B.C.S., C.I.E. (Municipal Corporation of Bombay).

OSMOND, W. M. (Municipal Corporation of Calcutta).

PAYNE, Surgeon-General A. J. (Government of Bengal).

RAY, P. K., D.Sc. (University of Calcutta).

REDDIE, W. G. (Rangoon Chamber of Commerce).

RENTON, J. H. (Ceylon Chamber of Commerce).

SIMPSON, W. J., M.D. (Municipal Corporation of Calcutta).

SINCLAIR, Surgeon-Major D., M.B. (Province of Burma).

STRACHAN, James, M.Inst.C.E. (Municipality of Karachi).

STREET, Surgeon-Major A. W. F. (Government of Bombay).

TAIT, P. M. (East India Association).

THORNTON, T. H., C.S.I., D.C.L. (Government of the Punjab).

THOMPSON, J. (Municipality of Rangoon).

THORNHILL, Hayman, M.D. (Government of Ceylon).

WILSON, Sir Alexander (Bengal Chamber of Commerce).

WADIA, Hon. N. N., C.I.E. (Bombay Millowners' Association).

WALKER, Deputy-Surgeon-General W. (North-West Provinces and Oudh).

WEDDERBURN, Sir Wm., Bart. (Poona Sarvajanik Sabha).



ALPHABETICAL LIST OF INDIAN AND CEYLON GOVERNMENTS, CORPORATIONS, SOCIETIES, ETC., WITH NAMES OF DELEGATES.

Bengal, Government of :

CUNNINGHAM, Surgeon-Major D. D., M.B.

PAYNE, Surgeon-General A. J.

Bengal Chamber of Commerce :

McCaw, W. J. M.

WILSON, Sir Alexander.

Bhavnagar, The Maharaja of :

BHOWNAGGREE, Mancherjee M.

Bombay, Government of :

MOORE, Surgeon-General Sir W. J., K.C.I.E.

STREET, Surgeon-Major A. W. F.

Bombay Chamber of Commerce :

ADAM, Sir Frank Forbes, C.I.E.

Bombay Millowners' Association :

ADAM, Sir Frank Forbes, C.I.E.

BAHADHURJI, Dr. K. N.

WADIA, Hon. N. N., C.I.E.

Bombay Medical Union :

BAHADHURJI, Dr. K. N.

Bombay, Municipal Corporation of :

OLLIVANT, E. C. K., B.C.S., C.I.E.

Bombay, University of :

COOK, Surgeon-General Henry, F.R.C.P.

LYON, Brigade-Surgeon J. B., M.R.C.S.

CARTER, Deputy-Surgeon Vandyke, M.D.

Burma, Government of :

SINCLAIR, Surgeon-Major D., M.B.

Calcutta, Municipal Corporation of :

COTTON, H. J. S., B.C.S.

OSMOND, W. M.

SIMPSON, W. J., M.D.

Calcutta Trades' Association :

BROOKES, T. W.

CAITHNESS, J. C.

KNIGHT, J. B., C.I.E.

Calcutta, University of :

CROMBIE, Dr. A.

HARRISON, Sir Henry

RAY, P. K., D.Sc.

Calcutta, Mahomedan Literary Society :

LEITNER, Dr.

HUNTER, Sir Wm. W., K.C.S.I.

Ceylon, Government of :

FERNANDO, Dr. Solomon.

THORNHILL, Hayman, M.D.

Ceylon, Chamber of Commerce of :

BOIS, Fred.

RENTON, J. H.

MACKWOOD, F. M.

BOSANQUET, R. A.

MITCHELL, W. W.

Ceylon Medical College :

FERNANDO, Dr. Solomon.

Colombo, Municipal Council of :

GREGORY, The Right Hon. Sir W. H., K.C.M.

CAMPBELL, Sir G. W. R., K.C.M.G.

GRENIER, The Hon. Sir S.

Indian Tea Districts' Association :

DE RANZY, Surgeon-General A. C. C., C.B.

India, Government of :

HARVEY, Brigade-Surgeon Robert, M.D.

Karachi Chamber of Commerce :

BEAUMONT, T. L. F.

Karachi, Municipal Corporation of :

STRACHAN, James, M.Inst.C.E.

Madras, Government of :

BIDIE, Surgeon-General G., M.D., C.I.E.

FARQUHAR, Deputy Surgeon-General W., M.D.

Madras, University of :

BIDIE, Surgeon-General G., M.D., C.I.E.

CORNISH, Surgeon-General W. R., C.I.E.

KING, Brigade-Surgeon H.

Mysore, State of :

McGANN, Brigade-Surgeon T. J., F.R.C.S. Ed.

North Arcot, District Local Fund Board of :

LANCASTER, Surgeon-Major John, M.B.

North-West Provinces and Oudh, Government of :

GRIFFITH, Brigade-Surgeon G.

HUGHES, Supervising Engineer A.

WALKER, Deputy Surgeon-General W., LL.D.

Poona Sarvajanik Sabha :

WEDDERBURN, Sir Wm., Bart.

Punjab, Government of :

BROWNE, Surgeon-Major S. H.

THORNTON, T. H., C.S.I.

Punjab, University :

BROWNE, Surgeon-Major S. H.

Rajpootana :

HENDLEY, Surgeon-Major T. H., C.S.I.

Rangoon, Chamber of Commerce of :

REDDIE, W. G.

Rewa, State of :

GIMLETTE, Surgeon G. H. D., M.D.

Rangoon, Municipal Corporation of :

CLARKE, O. D., A.M.I.C.E.

MATTHEWS, H. M., M.I.C.E.

THOMPSON, J.

JONES, S. G.

Upper India Chamber of Commerce :

LEDGARD, H.

Vellore, Municipal Council of :

LANCASTER, Surgeon-Major John, M.B.

East India Association :

LEITNER, Dr.

MEADE, General Sir Richard, K.C.S.I., C.I.E.

TAIT, P. M.

National Indian Association :

FRANCIS, Surgeon-General C. R., M.D.

**National Association for Supplying Female Medical Aid to the
Women of India :**

COOPER, Lieutenant-Colonel Harry.



ALPHABETICAL LIST OF COLONIAL DELEGATES.

BAYARD, W., M.D. (Provincial Board of Health, New Brunswick, Canada).

BELL, Sir F. D., K.C.M.G., C.B. (Government of New Zealand).

BLACKETT, J., C.E. (Government of New Zealand).

BORTHWICK, Dr. Thomas (Government of South Australia).

BOWEN, Aubrey, M.R.C.S., L.K.D.Q.C.R.J. (Government of Victoria).

BRADDON, Sir E. N. C. (Government of Tasmania).

BROWN, William (University of New Zealand).

BRYCE, Dr. (Provincial Board of Health, Ontario).

CRAIK, Robert, M.D. (Provincial Board of Health, Quebec).

CURRIE, J. Z., M.D. (Provincial Board of Health, New Brunswick, Canada).

CASSIDY, Dr. (Provincial Board of Health, Ontario).

CHADWICK, Osbert, C.E., C.M.G. (Government of Hong Kong).

COVERNTON, Dr. (Provincial Board of Health, Ontario).

EDE, Nathaniel (Government of Hong Kong).

FARRELL, Edward, M.D. (Government of Nova Scotia).

FRANKISH, J. D., M.D. (New Zealand Medical Society, Canterbury Branch).

FRANKLAND, F. W., M.I.A. (Government of New Zealand; University of New Zealand and New Zealand Institute).

GLANVILLE, Dr., L.R.C.P., M.R.C.S. (Gunnedale Local Council, New South Wales).

GARDNER, Dr. (University of Adelaide).

GRIEVE, Surgeon-Major Robert (Government of British Guiana).

GZOWSKI, Colonel Sir C. S., A.D.C., K.C.M.G. (Canadian Society of Civil Engineers).

HARDY, James Arthur, M.R.C.S. (Government of Tasmania).

LE FEVRE, The Hon. George, M.D., M.L.C. (Government of Victoria).

MACDOUGALL, Alan (Canadian Society of Civil Engineers).

MAULT, A. (Government of Tasmania).

MAUNSELL, H. W., M.D. (University of Otago, New Zealand).

NEDWILL, Dr. Courtney (University of New Zealand).

ROWELL, Thomas Irvine, C.M.G., M.D. (Government of Straits Settlements).

ST. GEORGE, P. W. (Canadian Society of Civil Engineers).

THOMPSON, John Ashburton, M.D. (Government of New South Wales).



ALPHABETICAL LIST OF COLONIAL GOVERNMENTS,
CORPORATIONS, SOCIETIES, ETC., WITH NAMES
OF DELEGATES.

Adelaide, University of :
GARDENER, Dr.

British Guiana, Government of :
GRIEVE, Surgeon-Major Robert.

Canadian Society of Civil Engineers :
GZOWSKI, Colonel Sir C. S., A.D.C., K.C.M.G.
ST. GEORGE, P. W.
MACDOUGALL, Alan.

Gunnedale (New South Wales) Local Council :
GLANVILLE, Dr., M.R.C.S.

Hong Kong, Government of :
CHADWICK, Osbert, C.E., C.M.G.
EDE, Nathaniel.

New Brunswick, Canada, Provincial Board of Health of :
BAYARD, W., M.D. Ed.
CURRIE, J. Z., M.D.

New South Wales, Government of :
THOMPSON, John Ashburton, M.D.

New Zealand, Government of :
BELL, Sir F. D., K.C.M.G., C.B.
BLACKETT, J., C.E.
FRANKLAND, F. W., M.I.A.

New Zealand Medical Society, Canterbury Branch :
FRANKISH, J. D., M.D.

New Zealand, University of :
BROWN, William.
FRANKLAND, F. W., M.I.A.
NEDWILL, Dr. Courtney.

New Zealand Institute :
FRANKLAND, F. W., M.I.A.

Nova Scotia, Government of :
FARRELL, Edward, M.D.

Battersea Public Library.

Ontario Provincial Board of Health :

BRYCE, Dr.

CASSIDY, Dr. (President).

COVERNTON, Dr.

Otago University (New Zealand) :

MAUNSELL, H. W., M.D.

Quebec, Provincial Board of Health :

CRAIK, Robert, M.D.

South Australia, Government of :

BORTHWICK, Dr. Thomas.

Straits Settlements, Government of :

ROWELL, T. I., C.M.G., M.D.

Tasmania, Government of :

BRADDON, Sir E. N. C.

HARDY, James Arthur, M.R.C.S.

MAULT, A.

Victoria, Government of :

BOWEN, Aubrey, M.R.C.S.

LE FEVRE, the Hon. George, M.D., M.I.C.

Victoria, Medical Society of :

BOWEN, Aubrey, M.R.C.S.



FOREIGN COMMITTEES

AND

DELEGATES.

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HYGIENE.

BROUARDEL, Dr. P. (President)	-	-	-	France.
BILLINGS, Dr. J. S.	-	-	-	United States.
CORFIELD, Professor W. H.	-	-	-	England.
DUNCAN, Dr.	-	-	-	Russia.
GREENE, Pacha, Dr. H. R.	-	-	-	Egypt.
GOTOH, Dr. Shimpei	-	-	-	Japan.
VON GRUBER, Professor F.	-	-	-	Austria-Hungary.
MOSSO, Dr. A.	-	-	-	Italy.
MURPHY, Mr. Shirley F.	-	-	-	England.
ROTH, Dr. W.	-	-	-	Germany.

DEMOGRAPHY.

BERTILLON, Dr. J.	-	-	-	France.
BODIO, Professor L.	-	-	-	Italy.
BÖCKH, Dr. R.	-	-	-	Germany.
GALTON, Sir Douglas	-	-	-	England.
VON INAMA-STERNEGG, Dr. Carl T.	-	-	-	Austria-Hungary.
JAHLSON, Professor Jules	-	-	-	Russia.
OGLE, Dr. W.	-	-	-	England.

ADDITIONAL MEMBERS FOR THE SEVENTH CONGRESS.

HYGIENE.

BAÜMLER, Professor C.	-	-	-	Freiburg (Baden).
CORRADI, Professor A.	-	-	-	Pavia.
FÉLIX, Professor I.	-	-	-	Bucharest.
FODOR, Professor J.	-	-	-	Budapest.
VAN OVERBEEK DE MEYER, Professor G.	-	-	-	Utrecht.
PACCHIOTTI, Professor	-	-	-	Turin.
PISTOR, Professor	-	-	-	Berlin.
PUTZEYS, Professor F.	-	-	-	Liège.
RUYSCH, Dr. W. P.	-	-	-	The Hague.

DA SILVA AMADO, Dr. J. J.	-	-	-	-	Lisbon.
STOKVIS, Dr. B. J.	-	-	-	-	Amsterdam.
TRÉLAT, Professor Émile	-	-	-	-	Paris.
VALLIN, Professor	-	-	-	-	Lyons.
VILANOVA Y PIERA, Professor Don Juan	-	-	-	-	Madrid.

DEMOGRAPHY.

CHERVIN, Dr. A.	-	-	-	-	Paris.
JANSSENS, Dr. Eugène	-	-	-	-	Brussels.
KELETI, Dr. Carl	-	-	-	-	Budapest.
KIÄER, Professor A. N.	-	-	-	-	Christiania.
KÖRÖSI, M. Josef	-	-	-	-	Budapest.
VON MAYR, Dr. Georg	-	-	-	-	Munich.
MILLIET, M. W. E.	-	-	-	-	Berne.
RASERI, Dr. Enrico	-	-	-	-	Rome.
TOBIEU, Dr. Alexander	-	-	-	-	Riga.



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FOR AUSTRIA.

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VICE PRESIDENT.

VOGL, Dr. August k. k. Hofrath und Professor der Pharmakologie, Vicepräsident des Obersten Sanitätsrathes.

MEMBERS.

BÖHM, Dr. Carl, k. k. Hofrath und Director des allgemeinen Krankenhauses in Wien.

GRUBER, Franz Ritter von, k. k. Hofrath und Professor der Architektur, Secretär des sechsten internat. hygienischen Congresses, Wien.

GRUBER, Dr. Max, k. k. Professor der Hygiene an der medicinischen Facultät in Wien.

KUŠÝ, Dr. Emanuel, k. k. Ministerialrath und Sanitätsreferent.

LUDWIG, Dr. Ernst, k. k. Hofrath und Professor der angewandten Chemie, Präsident des VI^{ten} Internationalen hygienischen Congresses.

WEICHELBAUM, Dr. Anton, k. k. a. o. Professor der pathologischen Anatomie und Professor des Krankenhauses "Rudolfstiftung."

FOR BELGIUM.

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PRESIDENT.

KUBORN, Professeur Hyacinthe, Membre de l'Académie Royale de Médecine, Président-Général de la Société Royale de Médecine Publique de Belgique.

SECRETARY.

PUTZEYS, Dr. Félix, Professeur d'Hygiène à l'Université de Liège, 15, Boulevard Frère-Orban, Liège.

MEMBERS.

BARELLA, Dr., Membre de l'Académie Royale de Médecine.

BEIVAL, Dr., Membre de l'Académie Royale de Médecine, Secrétaire de la Commission Médicale du Brabant, Rédacteur en chef du "Mouvement Hygiénique" à Bruxelles.

VAN DEN CORPUT, Dr., Membre de l'Académie Royale de Médecine, Président de la Commission Médicale du Brabant, à Bruxelles.

DESGUIN, Dr., Membre de l'Académie Royale de Médecine, à Anvers.

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VINTRAS, Dr. Louis (Governments of France and Persia), 19A, Hanover Square, W.

VOGL, Prof. Dr. Aug., Hofrath, Vice-President of the Imperial and Royal Superior Council of Health, Vienna (Austrian Government).

WALES, Dr. Philip S., Medical Director U.S. Navy (Navy Department, U.S.A.)

WALLON, M. (Société de Médecine publique et d'Hygiène professionnelle de Paris).

- DE WANDRE, Victor, Chirurgien en chef de l'hôpital Ste. Elizabeth (Hospices Civils d'Anvers), Antwerp.
- WARTMAN, Dr. Charles Lewis, Professor of Hygiene at the College of Geneva (Society of Hygiene, Geneva).
- WATKINS, Dr. W. W. (State of Idaho), Moscow, Idaho, U.S.A.
- WEICHSELBAUM, Prof. Dr. Ernst, Imperial and Royal Superior Council of Health, Vienna (Austrian Government).
- WITLAČIL, Dr. Andreas, k. k. Bezirksarzt, Vienna (Provincial Council of Health for Lower Austria).
- WILLIAMS, Dr. R. A., Olathe, Kansas (Board of Health of Kansas).
- WOLFF, Dr. Edmond (Conseil d'Hygiène d'Indre et Loire, and Société Protectrice de l'Enfance d'Indre et Loire), 52, Rue Bernard Palissy, Tours.
- WOODHULL, Brevt. Lieut.-Colonel Alfred A. (War Department U.S.A.), Surgeon in the United States Army.
- WYMAN, Dr. Morrill (State of Massachusetts), Cambridge, Mass.
- ZOLOTOVITCH, Dr. L., Médecin en chef de la Ville de Sofia, Membre du Conseil supérieur Médical de Bulgarie (Bulgarian Government).



# ALPHABETICAL LIST OF FOREIGN GOVERNMENTS, CORPORA- TIONS, SOCIETIES, AND OTHER BODIES, WITH NAMES OF DELEGATES.

## ARGENTINE REPUBLIC.

Argentine Republic, Department of Public Health :

CONI, Dr. Emilio R., Director of the Demographic Bureau.

COBOS, Dr. Francisco.

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## AUSTRIA.

Austria, Government of :

KUSÝ, Dr. Em., Ministerialrath, Member of the Imperial and Royal Superior Council of Health : Imperial and Royal Ministry of the Interior, Vienna.

VON HOFMANN, Dr. Ed. Ritter, Professor of Legal Medicine, President of the Imperial and Royal Superior Council of Health : Imperial and Royal Ministry of the Interior, Vienna.

VON GRUBER, Professor Franz Ritter, Hofrath : Imperial and Royal Superior Council of Health, Vienna.

WEICHELBAUM, Professor Dr. Ernst : Imperial and Royal Superior Council of Health, Vienna.

GRUBER, Professor Max, Imperial and Royal Ministry of Education and Public Worship, Vienna.

VOGL, Professor Dr. Aug., Hofrath (Vice-President of the Imperial and Royal Superior Council of Health) : Imperial and Royal Ministry of Education and Public Worship, Vienna.

MIGERKA, Dr. Fr., Ministerialrath : Imperial and Royal Ministry of Commerce, Vienna.

LUDWIG, Prof. Dr. Ernst, Hofrath (President of the VI. Congress of Hygiene) : Imperial and Royal Ministry of Finance, Vienna.

HUEPPE, Dr. Ferdinand (Extraordinary Professor of Hygiene at the German University of Prague) : Imperial and Royal Ministry of Education and Public Worship, Vienna.

Austria, K.K. Statistische Central-Commission :

VON JURASCHKE, Dr. Franz Ritter, k.k. Regierungsrath, Secretär der k.k. statist. Central-Commission.

GROTTE, Dr., Chief City Physician, Brüx, Bohemia.

**Lower Austria, Provincial Government of (Vienna) :**

GAUSTER, Dr. M. (Director of the Vienna Lunatic Asylum).

**Lower Austria, Provincial Council of Health for :**

WITLACIL, Dr. Andreas (k.k. Bezirksarzt), Vienna.

**Lower Austria, Provincial Scholastic Council of :**

BERGERSTEIN, Prof. Dr. Leo, Vienna.

**Lower Austria, Technical Association for :**

VON NOVELLY, Victor, Engineer, Vienna.

**Lower Austria, Chamber of Commerce and Industry for :**

SÜSS, Friedrich, k.k. Rath, Vienna.

**Austrian Association of Engineers and Architects :**

VON GRUBER, Prof. Franz Ritter, Vienna.

VON NOVELLY, Victor, Vienna.

VON STACH, Friedrich Ritter, Baurath, Vienna.

SIEBREICH, Carl, fürstlich Esterhazy'scher Central-Architekt, Vienna.

**Austrian Silesia, Provincial Council of Health for (Troppau) :**

HÜSSERL, Dr. Heinrich, k.k. Bezirksarzt.

**Austrian Society of Hygiene :**

VON STACH, Friedrich Ritter, Baurath, Vienna.

**Abbazia, City of :**

GLAX, Dr. Julius.

SCHWAZ, Dr. Johann.

**Bohemia, Provincial Council of Health for :**

PELE, Dr. Ignaz, Sanitätsreferent.

GINTL, Prof. Dr. Willh.

**Brünn, Technical College of :**

FRAUER, Professor Dr. Leop., Civil Engineer.

**Brüx (Bohemia), City of :**

GROTTE, Dr., Chief City Physician.

**Bukowina, Provincial Council of Health for the (Czernowitz) :**

KLUCZENKO, Dr. Basil, Sanitätsreferent.

**Carinthia, Provincial Council of Health for :**

MENSBURGER, Dr. E., Sanitätsreferent, Klagenfurt.

**Cracow, City of :**

BUSCHEK, Dr. Johann (City Physician).

NIEDZIAKOWSKI, M. (Architect).

PARÉNSKI, Prof. Dr. Stanislaus (Town Concellor).

**Cracow, Medical Association of :**

PONIKTA, Dr. Stanisł., Reader in the University, and District Physician.

**Cracow, Technical Association of :**

SERKOWSKI, Stan., Engineer.

**Cracow, St. Lazarus Hospital :**

HARAJEWICZ, Dr. Ladisl.

**Czernowitz, City of :**

RÖHMER, Dr. August (City Physician).



- Dalmatia**, Provincial Council of Health for (Zara) :  
IVANICZ, Dr. Gustav, Sanitätsreferent.
- Galicia**, Provincial Council of Health for (Lemberg) :  
MERUNOWICZ, Dr. Jos., Sanitätsreferent, Stadthaltereirath.  
CRYZÉWICZ, Dr. Adam, President of the Provincial Council of Health, Professor of Midwifery.
- Graz**, University of :  
KLEMENSIEWICZ, Prof. Dr. R.  
ESCHERICH, Prof. Dr. Th.
- Graz**, Chamber of Commerce of :  
KLEMENSIEWICZ, Prof. Dr. R.
- Graz**, Physicians' Society of :  
ESCHERICH, Prof. Dr. Th.
- Innsbruck**, University of :  
KRATTER, Dr. Julius, Professor of Hygiene and Forensic Medicine.  
OELLACHER, Dr. Josef, Ausserordentlicher Professor.
- Jicin (Bohemia)**, City of :  
PRESL, Dr. Ferd., k.k. Bezirksarzt.
- Lemberg**, City of :  
PAWLIKOWSKI, Dr. Ant. (City Physician).
- Lemberg**, University of :  
SZPILMAN, Dr. Joseph.
- Lemberg**, Veterinary College of :  
SEIFMANN, Dr. Peter (Director).
- Lemberg**, Polytechnicum of :  
PAWLEWSKI, Professor Bonisl.
- Lemberg**, Chamber of Commerce of :  
KOLISCHER, Dr. Heinrich.
- Moravia**, Provincial Government of (Brünn) :  
FANDERLIK, Dr. J., Member of the Reichsrath.
- Moravia**, Provincial Council of Health for (Brünn).  
SCHÖFL, Dr. Robert, Sanitätsreferent.
- Prague**, Bohemian University of :  
MACKNER, Dr. Em., Professor of Internal Medicine.  
JANOVSKY, Prof. Dr. Vietor.  
REINSBERG, Dr. Jos., Dean of the Faculty of Legal Medicine.
- Prague**, German University of :  
HUEPPE, Dr. Ferd., Professor of Hygiene.
- Prague**, Imperial Universal Hospital of :  
PELC, Dr. Ignaz.
- Prague**, Bohemian Polytechnicum :  
VAVRA, Prof. Anton.
- Prague**, German Polytechnicum :  
GINTL, Prof. Dr. Willh.
- Prague**, Association of Bohemian Physicians :  
HALÍK, Dr. M., Physician to the Bohemian Government.

**Reichenberg (Bohemia)**, Chamber of Commerce and Industry of :  
BACH, Dr. Hugo, Directeur du Bureau Municipal de Statistique.

**Tyrol**, Provincial Council of Health for (Innsbruck) :  
KRATTER, Dr. J., Professor of Hygiene.

**Vienna**, City of :  
STENZEL, Dr. Anton, Town Councillor and Staff-Surgeon (retired).

**Vienna**, University of :  
VON HOFMANN, Prof. Dr. Ed. Ritter.  
LUDWIG, Prof. Dr. Ernst.  
GRUBER, Prof. Dr. Max.

**Vienna**, Imperial and Royal Society of Physicians :  
GRUBER, Prof. Dr. Max.

**Vienna**, Wiener Medicinisches Doctoren Collegium :  
VON BRENNERBERG, Dr. Franz.  
STÖHR, Dr. Josef, Chefarzt der k. k. priv. oesterr. ungar. Staatseisenbahn.

**Volocza (Istria)**, City of :  
TAMARO, Dr. Johann, k. k. Bezirksarzt.

**Wilkowitz (Moravia)**, Ironworks of :  
MUNK, Dr., Physician to the Ironworks.  
(See HUNGARY for Delegates from that Kingdom.)

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## BELGIUM.

**Belgium**, Ministry of Agriculture, &c. :  
BÉCO, M. (Secrétaire Général du Département de l'Agriculture, &c. ; Chef de l'Administration du Service de Santé).  
DESGUIN, Victor, M.D. (Membre de l'Académie Royale de Médecine, &c.).  
DEVAUX, Alfred, M.D. (Inspecteur Général du Service de Santé au Département de l'Agriculture, &c.).  
FÉLIX, Jules, M.D., Brussels.  
LAET, Frédéric de, Greffier de la Province d'Anvers (Membre et Secrétaire de la Commission Sanitaire de l'Eseaut à Anvers).  
VAN DE VELDE, Guillaume (Pharmacien, Membre et Secrétaire de la Commission Sanitaire de l'Eseaut à Anvers).

**Belgium**, Ministry of War :  
LOGIE, Dr. V., Médecin de régiment de II<sup>ème</sup> classe, Bruges.

**Belgium**, Académie Royale de Médecine :  
JANSSENS, Dr. E., Inspecteur en Chef de l'Hygiène à Bruxelles  
Membre du Conseil Supérieur d'Hygiène et de la Commission Centrale de Statistique de Belgique.  
KUBORN, Prof. Dr. Hyacinthe, Seraing-Liège.

- Belgium**, Société Royale de Médecine Publique de Belgique.  
KUBORN, Dr. Hyacinthe (Président de la Société, &c.).  
PUTZEYS, Dr. F. (Professeur d'Hygiène à l'Université de Liège).  
SCHREVEENS, Dr. (Professeur d'Hygiène à l'Ecole Normale, Tournai).  
JORISSENNE, Dr. G. (Secrétaire provincial de la Société).
- Belgium**, Société Belge des Ingénieurs et des Industriels :  
GENIS, Louis Paris.
- Belgium**, Administration of Statistics :  
DE VAUX, M. le Dr.
- Aix La Chapelle**, City of :  
HEUSER, Carl, Regierungs-und Stadtbaumeister.
- Antwerp**, City of :  
DESGUIN, Dr. Victor, Conseiller Communal.
- Antwerp**, Hospices Civils :  
DE WANDRE, Victor, Chirurgien en Chef de l'Hôpital St<sup>e</sup> Elisabeth.
- Antwerp**, Société de Pharmacie :  
VERHASSEL, H.
- Brussels**, University of :  
DENIS, Hector (Professeur de Psychologie logique et Philosophie morale à la Faculté des Sciences Naturelles).  
DESMETH, Edouard (Professeur d'Hygiène à la Faculté de Médecine).
- Ghent**, City of :  
DUTRY, Dr. Félix.
- Ghent**, University of :  
VAN ERMENGEM, Dr., Professor of Bacteriology and Hygiene.
- Liège**, University of :  
PUTZEYS, Prof. Félix (nominated by the Belgian Government).  
FIRKET, Prof. Charles.
- Liège**, Province of, Société de Salubrité et d'Hygiène Publique.  
KUBORN, Prof. Dr. Hyacinthe.

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## BULGARIA.

- Bulgaria**, Government of :  
SARAFFOFF, Dr., Médecin en Chef de l'Armée Bulgare, Membre du Conseil Supérieur Médical de Bulgarie.  
ZOLOTOVITCH, Dr. L., Médecin en Chef de la ville de Sofia, Membre du Conseil Supérieur Médical de Bulgarie.
-

**DENMARK.****Denmark, Government of :**

BANG, Dr. B., (Professor at the Royal Agricultural and Veterinary College of Copenhagen).

LEHMANN, Dr. J., M.D. (Dean of the Royal Sanitary Council and Knight of the Order of the Dannebrog).

**Denmark, Ministry of War (Army Department) :**

LAUB, Dr. H., Chief Surgeon of the Royal Guards, Copenhagen.

**Denmark, Ministry of War (Navy Department) :**

BERG, Hans V., Medical Director of the Royal Danish Navy.

**Copenhagen, City of :**

BORUP, Burgomaster R.

LANGE, Dr. C.

**Copenhagen, Technical Association of :**

AMBT, C., Chief City Engineer.

MEYER, F. F., Chief of the City Department of Streets and Sewers.

SCHMIDT, Olaf, Architect.

**EGYPT.****Egypt, Government of :**

GREENE, Dr. H. R., Pacha (Director of the Sanitary Department).

IBRAHIM, Dr. Hassan, Pacha (Inspector of the Sanitary Department and Professor of Hygiene).

**FRANCE.****France, Government of :**

BERGERON, Dr. (Secrétaire perpétuel de l'Académie de Médecine, Vice-Président du Comité Consultatif d'Hygiène de France).

BÉRENGER-FÉRAUD, Dr. (Président du Conseil Supérieur de la Marine).

BROUARDEL, Dr. P. (Président du Comité Consultatif d'Hygiène publique de France, Doyen de la Faculté de Médecine de Paris).

CHAUVEAU, M. (Membre de l'Institut, Inspecteur Général des Services Vétérinaires, Président de la Société de Médecine publique et d'Hygiène professionnelle).

COLIX, Dr. Léon (Membre de l'Académie de Médecine, Médecin Inspecteur Général de l'Armée).

MARTIN, Dr. A. J. (Secrétaire de l'Assistance publique).

MONOD, M. (Directeur de l'Assistance et de l'Hygiène publiques au Ministère de l'Intérieur).



**France, Government of—*continued*.**

NAPIAS, Dr. (Inspecteur Général des Services Administratifs au Ministère de l'Intérieur, Secrétaire Général de la Société de Médecine publique et d'Hygiène professionnelle).

PASTEUR, M. (de l'Académie Française et de l'Académie des Sciences).

PROUST, Dr. (Inspecteur Général du Service Sanitaire, Professeur d'Hygiène à la Faculté de Médecine de Paris).

VALBREUX, M. de (Chef du Bureau de l'Hygiène publique au Ministère de l'Intérieur).

VINTRAS, Dr. Louis.

**France, Delegated by the Minister of Public Instruction, &c. to represent La Médecine Française :**

BERGERON, Dr. (Secrétaire perpétuel de l'Académie de Médecine de Paris).

BROUARDEL, Dr. P. (Membre de l'Académie de Médecine de Paris).

BUDIN, M. (Membre de l'Académie de Médecine de Paris).

CHARPENTIER, Dr. (Membre de l'Académie de Médecine de Paris).

CHAUVEAU, M. (Membre de l'Institut, Inspecteur Général des Écoles Vétérinaires).

COLIN, Dr. Léon (Membre de l'Académie de Médecine de Paris).

GABRIEL, Prof. C. M. (Membre de l'Académie de Médecine de Paris).

JACQUEMET, M. (Professeur à l'École Nationale d'Agriculture de Montpellier).

MANGENOT, Dr. (Président d'honneur de la Société des Médecins-Inspecteurs des Écoles de la ville de Paris).

PROUST, Dr. (Membre de l'Académie de Médecine de Paris).

ROUSSEL, Théophile (Sénateur, Membre de l'Académie de Médecine de Paris).

**France, Ministry of War :**

LONGUET, M., Médecin Major de 1<sup>ère</sup> classe, attaché à la Section Technique du Service de Santé au Ministère de la Guerre.

SCHNEIDER, M., Médecin Major de 1<sup>ère</sup> classe, attaché à la Direction du Service de Santé au Ministère de la Guerre.

**France, Ministry of Agriculture :**

RAILLET, Prof. A., École Vétérinaire d'Alfort.

**France, Ministry of Marine :**

HYADES, Dr., Médecin Principal de la Marine.

**France, Ministry of the Colonies :**

ALGLAVE, Dr.

**France, Assistance Publique :**

DEROUIN, M. H.; Secrétaire Général de l'Assistance Publique.

KREMER, M. Phillipe, Ingénieur.

**France**, Association Française pour l'Avancement des Sciences :

GARIEL, Prof. C. M.

**France**, Société Zoologique de :

BLANCHARD, Dr. R.

RAILLIET, Professeur à l'École Vétérinaire d'Alfort.

**France**, Société Odontologique de :

SAINT-HILAIRE, M., Secrétaire Général de la Société.

LAWRENCE, W. H., Professeur à l'École Dentaire de France.

**Paris**, City of :

LEVRAUD, Dr. L., Président du Conseil Municipal de Paris,  
Membre du Conseil d'Hygiène de la Seine.

BECHMANN, M., Ingénieur en chef de l'Assainissement.

MASSON, M., Inspecteur du Service de l'Assainissement.

LAUNAY, M., Ingénieur de l'Assainissement.

BERTILLON, Dr., Chef du service de la Statistique municipale.

BOUHON, Frédéric, Architecte-expert.

BROUSSE, Dr. Paul, Conseiller Municipal.

CHAMPOUDRY, M., Conseiller Municipal.

DAVRILLÉ DES ESSARDS, M., Conseiller Municipal.

LAMPUÉ, M., Conseiller Municipal.

STRAUSS, M., Conseiller Municipal.

VAILLANT, M., Conseiller Municipal, M.R.C.S. Eng.

**Paris**, Commission des Logements Insalubres :

BOUHON, Frédéric, Architecte-expert.

HUDELO, L., Civil Engineer.

SOCQUET, Dr., Médecin-légiste.

**Paris**, Faculty of Medicine of :

BROUARDEL, Dr. P., Dean of the Faculty.

BOUCHARD, Prof.

CORNIL, Prof. V.

PROUST, Prof.

GARIEL, Prof. C. M.

PINARD, Prof.

BLANCHARD, Dr.

**Paris**, Société Française d'Hygiène :

CHEVANDIER (DE LA DRÔME), Dr.

DE PIETRA SANTA, Dr. Prosper.

**Paris**, Société de Médecine Publique et d'Hygiène Professionnelle :

BECHMANN, M.

BROUARDEL, Dr. P.

BRÜLL, Achille.

CHAUVEAU, Dr.

COHEN, M.

CORNIL, Prof.

DESCHAMPS, M.

HERSCHER, Charles.

LEDÉ, M.

MARTHA, M.

**Paris, Société de Médecine Publique et d'Hygiène Professionnelle—**  
*continued :*

MARTIN, Dr. A. J.

DU MESNIL, M.

NAPIAS, Dr.

NEUMANN, M.

PROUST, Dr.

WALLON, M.

**Paris, Société de Médecine Pratique :**

DIGNAT, Dr. P.

DUCHAUSSOY, Dr., Secrétaire Général de l'Association des  
Dames Françaises.

**Paris, Société des Ingénieurs Civils :**

BOUNOL, Léon, Ingénieur des Arts et Manufactures.

BRÜLL, Achille, Ingénieur Civil.

CACHEUX, Emile.

GAGET, Emile.

HERSCHER, Ch., Vice-Président de la Société des Ingénieurs  
Civils.

SALOMON, Georges.

TRÉLAT, Emile, Professeur au Conservatoire National des Arts  
et Métiers, Directeur de l'École d'Architecture.

HUDELO, L., Répétiteur à l'École Centrale.

PIET, Jules, Membre du Jury à l'Exposition Internationale  
de 1889.

BONNA, Aimé.

**Paris, Société d'Hygiène de l'Enfance :**

FÉRET, M., Librarian of the Society.

**Paris, Société pour la Propagation de la Crémation :**

SALOMON, Georges.

**Paris, Union Internationale des Sciences et des Arts :**

BRÈS, Mme. Madeleine, Docteur en Médecine.

LYON, Mlle. Rose.

**Bordeaux, Faculté de Médecine de :**

LAYET, Dr., Professeur d'Hygiène.

**Indre et Loire (France), Department of, Conseil d'Hygiène :**

WOLFF, Dr. Edmond.

**Indre et Loire, Société Protectrice de l'Enfance :**

WOLFF, Dr. Edmond.

PIC PARIS, Eugène.

**Lille, Faculty of Medicine of :**

ARNOULD, Dr. Jules (Professeur d'Hygiène à la Faculté).

**Lille, City of :**

FAUCHER, Léon (Adjoint au Maire).

**Loire Inférieure (France), Department of :**

LEDUC, Dr. S. (Professeur à l'École de Médecine de Nantes).

**Lyons, City of :**

ROUX, Dr. Gabriel, Directeur du Bureau Municipal d'Hygiène.

**Meurthe et Moselle (France), Department of :**

ANDRÉ, Charles, Architecte, Nancy.

**Nancy, City of :**

DELCOMINETE, M., Adjoint au Maire, Professeur à l'École Supérieure de Pharmacie de Nancy.

**Nancy, Faculty of Medicine of :**

POINCARÉ, Léon, Professeur d'Hygiène.

**Reims, City of :**

HENROT, Dr. Henri (Mayor).

HOËL, Dr. (Directeur du Bureau Municipal d'Hygiène et de Statistique).

**La Rochelle (France), Société des Amis des Arts :**

ALQUIER, Louis Auguste, Commissaire de la Marine.

**Rouen, Société Normande d'Hygiène Pratique :**

LAURENT, Dr. Armand.

HUE, Dr. François, Chirurgien des Hôpitaux de Rouen, Professeur suppléant à l'École de Médecine.

**Saint Etienne, City of :**

FLEURY, Dr. Claude M.

**Seine (France), Préfecture of the :**

JOSIAS, Dr. Albert, Médecin des Hôpitaux de Paris, Médecin Inspecteur des Etablissements Sanitaires de Paris.

**Seine (France), Department of, Conseil d'Hygiène et de Salubrité :**

BEZANÇON, F., Chef de la II<sup>ème</sup> Division à la Préfecture de Police.

NOCARD, Edm., Professeur à l'École Vétérinaire d'Alfort, Membre du Comité Consultatif des Epizooties.

FAUCHER, Léon, Ingénieur du Gouvernement Français.

**Seine Inférieure (France), Department of, Conseil Central d'Hygiène :**

CERNÉ, Dr., Rouen.

DEBOUT, Dr., Rouen.

DESHAYES, Dr., Rouen.

DOUARD, M., Rouen.

BORDEAUX, M. Rouen.

**Vosges (France), Department of, Conseil Central d'Hygiène.**

GEBHART, Dr., Épinal.

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## GERMANY.

**Germany, Government of:**

Von Seiten des Deutschen Reichs wird als Delegirter entsendet werden :—

1. SELL, Dr., Kaiserlicher Geheimer Regierungsrath, ordentliches Mitglied des Kaiserlichen Gesundheitsamts zu Berlin.



**Germany, Government of—continued.**

Als Deutsche Delegirte werden ferner an dem Kongress Theil nehmen :—

2. VON COLER, Dr., Königlich Preussischer Wirklicher Geheimer Ober-Medizinalrath, General-Stabsarzt der Armee und Abtheilungschef im Kriegs-Ministerium zu Berlin.
3. SCHÖNFELD, Dr., Königlich Preussischer Geheimer Ober-Medizinalrath zu Berlin.
4. PISTOR, Dr., Königlich Preussischer Geheimer Medizinalrath im Königlichem Polizei-Präsidium zu Berlin.
5. GROSSHEIM, Dr., Königlich Preussischer Generalarzt, Klasse und Abtheilungschef im Kriegs Ministerium zu Berlin.
6. EMMERICH, Dr., Königlich Bayerischer Universitäts-Professor zu München.
7. LEHMANN, Dr., Königlich Bayerischer Universitäts-Professor zu Würzburg.
8. GÜNTHER, Dr., Präsident des Königlich Sächsischen Landes-Medizinal-Kollegiums zu Dresden.
9. VON KNAPP, Königlich Württembergischer Director und Vorstand des Statistischen Landesamts zu Stuttgart.
10. BÜCKLING, Dr., Königlich Württembergischer Ober-Stabsarzt, Klasse und Garnisonarzt zu Stuttgart.
11. VON KOCH, Dr., Königlich Wurttembergischer Ober-Medizinalrath zu Stuttgart.
12. HARDECK, Dr., Grossherzoglich Badischer Geheimerath, Mitglied des Internationalen Statistischen Institutes und Vorstand des Statistischen Büreaus zu Karlsruhe.
13. PFEIFFER, Dr., Grossherzoglich Hessischer Ober-Medizinalrath und vortragender Rath im Grossherzoglich Hessischen Ministerium des Innern und der Justiz zu Darmstadt.
14. VON HESSE, Dr., Grossherzoglich Hessischer Medizinalrath und Kreisarzt zu Mainz.
15. BLASIUS Dr., Vorstands-Vorsitzender des Vereins für öffentliche Gesundheitspflege im Herzogthum Braunschweig, Stabsarzt a. D., und Professor, Dozent der Hygiene an der Herzoglichen Technischen Hochschule zu Braunschweig.
16. SIEVERS, Regierungsrath und Vorstand des Statistischen Büreaus des Herzoglichen Staats-Ministeriums zu Braunschweig.
17. PLETZER, Dr., Mitglied des Gesundheitsraths zu Bremen.
18. KLAUS, Dr., Medizinalrath zu Hamburg.
19. KNAPP, Dr., Universitäts-Professor und derzeitiger Rector der Kaiserlichen Universität zu Strassburg i/E.
20. GOETZ, Dr., Grossherzoglich Ober-Medizinalrath.

**Bavaria, Government of :**

EMMERICH, Dr. R. (Professor in the University of Munich).

LEHMANN, Dr. Bernhard (Professor in the University of Würzburg).

**Bavaria, Ministry of War :**

BUCHNER, Dr. Hans, k. k. Stabsarzt.

SCHUSTER, Dr.

**Berlin, City of :**

BÖCKH, Dr. R.

**Bonn, University of :**

FINKELNBURG, Prof. Dr., Geheimer Rath.

**Breslau, City of :**

SIMON, Dr. H., Member of the Municipal School Board.

VON SCHOLTZ, Herr, Baninspector.

**Breslau, Royal University of :**

PONFICK, Prof. Dr., Geheimer Medicinalrath, Direktor des Pathologischen Instituts.

**Dresden, City of :**

NIEDNER, Dr.

**Freiburg in Baden, University of :**

BÄUMLER, Dr. Christian, Direktor der Medicinischen Klinik.

**Brunswick, Society of Public Hygiene :**

LANDAUER, T.

**German Association for Public Hygiene (Frankfort-on-Main) :**

STÜBBEN, J., Stadtbaurath, Koeln am Rhein.

**German Union of Physicians' Associations :**

GRAF, Dr. C., Elberfeld.

**German Engineers' Association :**

HENNEBERG, R., Civil Engineer, Berlin.

HERZBERG, A., Civil Engineer, Berlin.

THIEM, A., Civil Engineer, Leipzig.

HEGENER, Manufacturer, Kalk, bei Koeln am Rhein.

**Hanover, Society of Public Hygiene of :**

GUERTLER, Dr., Sanitätsrath, President of the Society.

KIRCHNER, Dr.

**Hesse-Darmstadt, Grand Ducal Government of :**

PFEIFFER, Dr., Geheimer Ober-Medicinalrath, Darmstadt.

VON HESSE, Dr., Grossherzoglicher Kreisarzt, Medicinalrath, Mainz.

**Kotzenau, City of :**

TITTINGER, Dr. Hermann (k. k. Bezirksarzt).

**Magdeburg, City of :**

BOEHM, Dr. L., Medicinalrath und Kreisphysikus.

**Saxony, Minister of the Interior :**

GÜNTHER, Dr., Praesident des Landesmedicinalcollegium.

BECKER, Dr. (for the Province of Leipzig).

FLINZER, Dr., Medicinalrath (for the Province of Zwickau).

**Saxony**—*continued.*

ERDMANN, Dr., Obermedicinalrath (for the Province of Dresden).

HESSE, Dr. Medicinalrath (for the Province of Bautzen).

**Saxony**, War Department of :

ROTH, Prof. Dr. W., Generalarzt I. Klasse.

LÜBBERT, Dr. A., k. s. Stabsarzt.

**Württemberg**, War Ministry of :

BÜCKLING, Dr. Oberstabsarzt II. Klasse.

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**GREECE.**

**Greece**, Government of :

GENNADIUS, His Excellency M. J., Minister resident in London, 5, St. James's Street, S.W.

**Athens**, University of :

BOUSSAKIS, Dr., Président de la Société Médicale d'Athènes.

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**HOLLAND** (*See* NETHERLANDS).

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**HUNGARY.**

**Hungary**, Royal Ministry of Education and Public Worship :

MARKUSOVSKY, Dr. Ludwig, Ministerialrath.

FODOR, Prof. Dr. J.

RÓZSAHEGYI, Dr. Aladár, Professor of Hygiene.

**Hungary**, General Council of Public Health for the Kingdom of :

CSATÁRY DE CSATÁR, Councillor Dr. Louis.

**Arad**, City of :

KEMÉNY, Dr. Julius, Spitalarzt.

**Budapest**, Municipality of :

GEBHARDT, Dr. Ludwig.

KRESZ, Dr. Géza.

ADLER, Dr. Sigmund.

**Budapest**, Communal Authorities of :

KRESZ, Dr. Géza, Metropolitan Head Officer of Health.

ADLER, Dr. Sigmund.

HABERHAUER, Johann (Magistratsrath, Chief of the Municipal Hygiene Department).

KÖRÖSI, Josef (Director of the City Statistical Office).

MÜLLER, Dr. Koloman (Director of the Rochus Hospital).

KRICK, Dr. Arpád, Bezirksarzt.

**Budapest, Medical Faculty of the University of :**

HÖGYES, Prof. Dr. Andreas.

LAUFENAUER, Dr. Carl, Professor der Psychiatrie u. Nervenkrankheiten.

TAUFFER, Prof. Dr. Wilhelm.

**Budapest, Physicians' Association of :**

FODOR, Prof. Dr. J.

HÖGYES, Prof. Dr. Andreas.

**Budapest, Society of Hygiene of :**

LAUFENAUER, Prof. Dr. Carl.

**Budapest, Volunteer Salvage Association of :**

KRESZ, Dr. Géza, Metropolitan Head Officer of Health.

KOVÁCH, Dr. E. Aladár.

**Bielitz, City of :**

FISCHLER, Dr. Alex. (Physician to the City).

**Debreczin, City of :**

TIHANYI, Dr. Sam., Honorary Chief Physician of the City.

**Debreczin, Medical and Pharmaceutical Association of :**

SÁRVÁRY, Dr. Gyula, Chief City Physician.

LEGÁNYI, Dr. Gyula, Professor in the Commercial Academy.

**Grosswardein, Town of, and Medical and Pharmaceutical Society of :**

BERKOVICS, Dr. Franz.

BECS, Dr. Emil Ludwig.

**Kaschau, City of :**

MOSKOVITS, Dr. Jakob, Chief Physician of the City.

**Kolozsvár, University of :**

RÓZSAHEGYI, Dr. Aladár, Professor of Hygiene.

---

## ITALY.

**Italy, Government of :**

CORRADI, Alfonso, Commendatore, Professor in the University of Pavia.

MOSSO, Dr. Angelo, Professor in the Royal University, Turin.

**Italy, Ministry of the Interior :**

PAGLIANI, Prof. Dr. L.

**Italy, Board of Health for the Kingdom :**

PAGLIANI, Prof. Dr. L.

**Bologna, University of :**

CORRADI, Professor Alfonso, Commendatore.

**Lombardy, Royal Institute of :**

CORRADI, Professor Alfonso, Commendatore.

**Naples, City of :**

SAMBON, Dr. Louis.

SPATUZZI, Professor Achille, Chef du bureau municipal d'hygiène.



**Padua**, University of :

PAGLIANI, Dr. L., Professor of Hygiene.

**Pavia**, University of :

CORRADI, Prof. Alfonso, Commendatore.

**Rome**, City of :

CELLI, Cav. Angelo, Ordinary Professor at the Royal University and Director of the Experimental Institute of Hygiene.

**Turin**, City of :

PACCHIOTTI, Dr. Iacinto, Professeur à l'Université.

**Turin**, Royal University of :

Mosso, Prof. Dr. Angelo.

---

## JAPAN.

**Japan**, Government of :

GOTOH, Dr. Shimpei.

**Tokyo**, Imperial University of :

TSUBAI, Dr. Jiro, Assistant Professor in the College of Medecine.

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## MEXICO.

**Mexico**, Government of :

FEJADA Y GUZMAN, Dr. Carlos.

MUÑOZ SANCHEZ, Dr. Francisco.

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## NETHERLANDS.

**Netherlands**, Government of the :

VAN OVERBEEK DE MEYER, Dr. G. (Prof. d'Hygiène à Université de l'État à Utrecht).

DE MEYER, Colonel Dr. W. J., Médecin Militaire principal de 1<sup>re</sup> Classe.

PIERSON, N. G., Doct. en droit, Amsterdam.

RUYSCH, Dr. W. P., Conseiller pour le Service Sanitaire au Ministère de l'Intérieur.

STEKOUIS, Dr. C., Délégué de S.M. la Reine des Pays Bas au Conseil International Sanitaire de Constantinople.

**Netherlands**, Ministry of the Colonies of the :

MASTHOFF, Capt. J. A. B., Médecin Militaire de 1<sup>re</sup> Classe.

**Netherlands**, Ministry of Marine of the :

THOMSON, Dr. B. H., Médecin Principal de 1<sup>re</sup> Classe.

**Netherlands**, Royal Institute of Engineers of the :  
 SYMONS, M., Engineer.

**Netherlands**, Statistical Institute of the :  
 PIERSON, N. G., Docteur en Droit.

**Netherlands**, Medical Association of the :  
 VAN DOOREMAAL, Dr. J. C., The Hague.

**Amsterdam**, City of :  
 SALTET, Dr. R. H., Director of the Municipal Sanitary Service.

**Amsterdam**, University of :  
 FORSTER, Dr. J., Professor of Hygiene.  
 STOKVIS, Dr. B. J., Professor of Medicine.

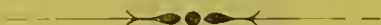


## NORWAY (*See SWEDEN AND NORWAY*).



## PERSIA.

**Persia**, Government of :  
 MIRZA MOHAMMED ALI KHAN, His Excellency General,  
 Envoy of H.I.M. the Shah at the Court of St. James.  
 VINTRAS, A., M.D., Physician to the French Hospital, London.  
 VINTRAS, L., B.Sc., M.R.C.S., L.R.C.P.



## PORTUGAL.

**Portugal**, Government of :  
 ALCOCHETE, Baron de, Attaché à la Légation du Portugal à Paris.  
 DA SILVA AMADO, Councillor Dr. José Joaquim, Professor at the Medico-Chirurgical School of Lisbon, and Director of the Infirmary of the Hospital of St. José.

**Lisbon**, City of :  
 DA SILVA AMADO, Councillor Dr. J. J (Professeur à l'École de Médecine, Directeur du service d'Hygiène de la municipalité).



## ROUMANIA.

**Roumania**, Government of :  
 FÉLIX, Dr. J., Professeur d'Hygiène à la Faculté de Médecine de Bucarest, Membre du Conseil Sanitaire Supérieur de Roumanie.  
 FOTINO, A., Général de Brigade, Médecin Inspecteur.  
 DANESCO, Dr. Jean, Médecin de Régiment.

**Roumania**, Ministère de l'Assistance Publique :  
CLEMENT, Dr. Eraclius, Médecin en chef des Hôpitaux Civils  
de Roumanie.

**Jassy (Roumania)**, Society of Physicians and Naturalists of :  
BOGDAN, Dr. Geo.

**Jassy**, Municipality of :  
KONYA, Dr. S., Physician in Chief of the City of Bucharest.

**Jassy**, Society of Physicians and Naturalists of :  
KONYA, Dr. S., Doctor of Chemistry.

**Jassy**, Scientific and Literary Society of :  
TÉSIDÉ, Dr. Aristide.  
KONYA, Dr. S.

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## RUSSIA.

**Russia**, Imperial Government of :  
DUNCAN, Dr. N. (Privy Councillor of State), St. Pétersbourg.  
PETERMAN, Prof. Dr., Attaché à l'Hôpital Militaire de Moscou.

**Odessa**, City of :  
BARDACH, Z.

**St. Petersburg**, City of :  
SUZOR, Comte de, Architecte en Chef de la Ville de St. Péters-  
bourg.

**Warsaw**, City of :  
POLAK, Dr. S., City Physician.

**Warsaw**, Imperial University of :  
KOWALKOWSKI, Constantin, Professeur ordinaire d'Hygiène à  
la Faculté de Médecine.

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## SERVIA.

**Servia**, Government of :  
GEORGEVITCH, Colonel Dr. Vladan, Président du Conseil  
Supérieur de Santé du Royaume de Serbie.  
SOUBOTITCH, Dr. Voïslav, Chirurgien en Chef de l'Hôpital  
Central de l'État à Belgrade.

**Belgrade**, City of :  
MICHEL, Dr. Edouard.

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## SPAIN.

**Spain**, Government of :  
VILANOVA Y PIERA, Don Juan, President of the Health Section  
of the Royal Academy of Medicine.

**Spain**, Ministry of the Interior :  
BELMAS, Don Mariano, Engineer.

**Spain, War Ministry of :**

DE LARRA Y CEREZO, Dr. Angel.

PACHECO, Dr. Modesto Martinez y Gutierrez, President of the Spanish Society of Hygiene, Sub-inspector of Military Hygiene.

**Spain, Society of Hygiene of :**

PACHECO, Dr., Modesto Martinez y Gutierrez.

GARCIA FARIA, Don Pedro.

**Barcelona, City of :**

GARCIA FARIA, Don Pedro, Chief Engineer.

**Barcelona, University of :**

RODRIGUEZ MENDEZ, Dr. Rafael, Professor of Public Hygiene.

**Madrid, City of :**

RUBIO Y AMOEDO, Don Federico.

**SWEDEN AND NORWAY.****Sweden and Norway, Government of :**

LINROTH, Dr. Klas, Chief City Physician of Stockholm.

BENTZEN, Dr. Gotfred Eugen, Director of the Civil Medical Service, Christiania.

**Christiania, University of :**

HOLST, Axel, Agrégé à la Faculté de Médecine.

**Stockholm, City of :**

LINROTH, Dr. Klas, Chief Physician of the City.

**SWITZERLAND.****Switzerland, Government of :**

GUILLAUME, Dr., (Directeur du Bureau Fédéral de Statistique).

MILLIET, Dr. E. W., Directeur de la Régie fédérale des Alcohols (en sa qualité de Membre de la Commission internationale nommée pour le VI<sup>ème</sup> Congrès d'Hygiène tenu à Vienne).

SCHMID, Dr. (Rapporteur fédéral pour les questions d'Hygiène).

**Switzerland, Military Department of :**

GÖLDLIN DE TIEFENAU, Colonel Dr. (Instructeur en chef des troupes sanitaires suisses), Lucerne.

MURSET, Capitaine Dr. (Adjoint du Médecin en chef de l'Armée).

**Geneva, Comité International de la Croix Rouge :**

D'ESPINE, Prof. Dr. Adolphe.

**Geneva, University of :**

D'ESPINE, Dr. Adolphe, Professeur de Pathologie interne à la Faculté de Médecine.



**Geneva, Société d'Hygiène :**

WARTMAN, Dr. Charles Lewis, Professor of Hygiene at the  
College of Geneva.

**Lausanne, University of :**

RAPIN, Dr. Oscar, Professeur à la Faculté de Médecine.

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## **TURKEY.**

**Ottoman Government :**

NAIM, Colonel, Bey, Constantinople.

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## **UNITED STATES OF AMERICA.**

**United States of America, Department of Agriculture :**

SALMON, Dr. D. E., Chief of the Bureau of Animal Industry  
in the U.S. Department of Agriculture, Washington, D.C.

**United States of America, Navy Department :**

WALES, Dr. Philip S., Medical Director U.S. Navy.

**United States of America, Treasury Department :**

GODFREY, Dr. John.

**United States of America, War Department :**

WOODHULL, Brevt. Lient.-Colonel Alfred A., Surgeon in the  
United States Army.

**Alabama, State of :**

LANIER, Clifford A.

LIGOU, Hon. R. F. (ex-Lt.-Governor of Alabama).

**American Medical Association :**

EARLEY, Charles R., M.D., Pennsylvania.

**American Public Health Association :**

MONTIZAMBERT, F., M.D., F.R.C.S., D.C.L., Medical Superin-  
tendent of the Canadian Quarantine Service, Quebec, and  
President of the Association.

BRYCE, Peter H., M.D., Secretary of the Provincial Board of  
Health of Ontario, Toronto.

RAUCH, Professor John H., M.D., Secretary of the State  
Board of Health of Illinois, Springfield.

HEWITT, Professor Charles N., M.D., Secretary of the State  
Board of Health of Minnesota, Red Wing.

PROBST, Professor Chas. O., M.D., Secretary of the State  
Board of Health of Ohio, Columbus.

HOMAN, Professor Geo., M.D., Secretary of the State Board  
of Health of Missouri, St. Louis.

KENNEDY, J. F., M.D., Secretary of the State Board of Health  
of Iowa, Des Moines.

**American Society of Civil Engineers:**

Post, Major James C., Corps of Engineers U.S. Army,  
Military Attaché to the Legation of the United States at the  
Court of St. James.

POUTZEN, Ernest, Paris.

SMITH, Jr., Hamilton, London.

CHURCH, Geo. Earl, London.

**Boston (Massachusetts), Board of Health of:**

PRINCE, Dr. Morton.

**Boston (Massachusetts), Children's Aid Society of:**

BIRTWELL, Charles W.

**Idaho, State of:**

ANDERSON, V. S., London, England.

BEAN, Dr. J. H., Pocatello, Idaho.

WATKINS, Dr. W. W., Moseow, Idaho.

**Iowa, State Board of Health of:**

KENNEDY, Dr. J. F.

**Kansas, Board of Health of:**

WILLIAMS, Dr. R. A., Olathe, Kansas.

**Massachusetts, State of:**

WYMAN, Dr. Morrill, Cambridge (Mass.).

**Massachusetts, State Board of Health of:**

ABBOTT, Dr. Samuel W., Secretary of the Massachusetts State  
Board of Health.

**Minnesota, State of:**

HEWITT, Dr. Charles N. (Secretary of the State Board of  
Health).

**New York City, Health Department of:**

EWING, W. A., M.D.

**New York City, Academy of Medicine of:**

JACOBI, A., M.D.

**Pennsylvania, State Board of Health of:**

McCLELLAND, Dr. James H., President.

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**VENEZUELA.****Venezuela, Government of:**

ALVARADO, Dr. Lisandro (Consul at Southampton).

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# LIST OF MEMBERS.

## ABBREVIATIONS.

|                                                           |                                                  |
|-----------------------------------------------------------|--------------------------------------------------|
| V.P.C. - - Vice-President of Congress.                    | M.FR.C. - - Member of French Committee.          |
| H.C.C. - - Honorary Councillor of Congress.               | M.DAN.C. - Member of Danish Committee.           |
| H.F.C. - - Honorary Foreign Councillor.                   | M.GERM.C. - Member of German Committee.          |
| H.C.B.E. - - Honorary Councillor of the British Empire.   | M.C.HOLL. - Member of Committee for Holland.     |
| M.G.C. - - Member of General Committee.                   | M.HUNG.C. - Member of Hungarian Committee.       |
| M.O.C. - - Member of Organising Committee.                | M.O.H. - - Medical Officer of Health.            |
| M.F.C. - - Member of Finance Committee.                   | P.S. - - President of Section.                   |
| M.I.C. - - Member of Indian Committee.                    | V.P.S. - - Vice-President of Section.            |
| M.R.C. - - Member of Reception Committee.                 | H.P.S. - - Honorary President of Section.        |
| M.P.I.C. - - Member of Permanent International Committee. | H.V.P.S. - - Honorary Vice-President of Section. |
| M.M.C. - - Member of Museum Committee.                    | C.S. - - Councillor of Section.                  |
| M.E.C. - - Member of Editing Committee.                   | H.C.S. - - Honorary Councillor of Section.       |
| MAUST.C. - Member of Austrian Committee.                  | S.S. - - Secretary of Section.                   |
| M.BELG.C. - Member of Belgian Committee.                  | H.P. Div. II. - Honorary President Division II.  |
|                                                           | V.P. Div. II. - Vice-President Division II.      |
|                                                           | C. Div. II. - Councillor Division II.            |

Her Majesty the Queen, Patron of the Congress.

H.R.H. The Prince of Wales, President of the Congress.

## A.

- ABBOTT, Alexander C., Dr. Med., University of Pennsylvania, Philadelphia, U.S.A.
- ABBOTT, Samuel W., M.D., Secretary of State Board of Health of Massachusetts, U.S.A., 13, Beacon Street, Boston, Mass. U.S.A.
- ABBOTTS, Wm., M.D., Editor "Hygiene," 39, Southampton Street, Strand, W.C.
- ABEL, Sir Frederick Augustus, K.C.B., D.C.L., D.Sc., F.R.S., H.C.C., 40, Cadogan Place, S.W.
- ABERCROMBIE, Francis, C.E., 23, Upper Wimpole Street, W.
- ABERCROMBIE, John, M.D., F.R.C.P., 23, Upper Wimpole Street, W.
- ABERDARE, Lord, G.C.B., 1, Queen's Gate, S.W.
- ABERDEEN, The Corporation of.
- ABRAHAM, Phineas S., M.A., M.D., B.Sc., F.R.C.S.I., C.S. 1, 2, Henrietta Street, Cavendish Square, W.
- ACCOUNTANTS AND AUDITORS, The Society of.

- ACKERY, John, M.R.C.S., L.D.S., 11, Queen Anne Street, Cavendish Square, W.
- ACLAND, Sir Henry, Bart., K.C.B., F.R.S., H.C.C., Oxford.
- ACLAND, Miss S. A., Oxford.
- ACLAND, Theodore Dyke, M.D., F.R.C.P., 74, Brook Street, W.
- ACRES, Charles J., M.D., L.R.C.P., Lond., M.R.C.S., D.P.H., Camb., 15, Grosvenor Road, Westminster, S.W.
- ACTUARIES, The Institute of.
- ADAM, Sir Frank Forbes, C.I.E., M.I.C., Ranfurly, Alderley Edge, Cheshire.
- ADAM, J. George, M.A., M.B., M.R.C.S., M.M.C., Fellow of Jesus College, Cambridge.
- ADAMS, Matthew Algernon, F.R.C.S., F.I.C., C.S. 1, Trinity House, Maidstone.
- ADAMS, Miss Rose, Secretary Ladies' Sanitary Association, 22, Berners Street, Oxford Street, W.
- ADAMS, Professor Henry, M.Inst.C.E., M.I.M.E., F.S.I., 60, Queen Victoria Street, E.C.
- ADAMS, J., M.D., M.O.H., Springwell, Barnes, S.W.
- ADDISON, Surg. C. J., Med. Staff, Netley, Hants.
- ADDISCOTT, W. J., Cert. San. Inst., Municipal Buildings, Plymouth.
- ADLER, Dr. Sigismund, Mitglied des Municipal Ausschusses der Stadt, Budapest.
- ADLER, Marcus N., M.A., F.S.S., Actuary Alliance Assurance Company, 22, Craven Hill, W.
- AGNEW, C. Morland, 39A, Old Bond Street, W.
- AGRICULTURAL SOCIETY OF ENGLAND, The Royal.
- AINLEY, Daniel, M.O.H., Halifax.
- AITKEN, Dr. A. P., Chemical Laboratory, 8, Clyde Street, Edinburgh.
- ALBANY, H.R.H. The Duchess of; Claremont, Surrey.
- ALBRECHT, Dr. H. Gross Lichterfelde, bei Berlin.
- DE ALCOCHETE, Baron, H.F.C., 41, Plage, Treport, Seine Inférieure, France.
- ALDERTON, T. Gunton, M.R.C.S., 82, The Grove, Hammersmith.
- ALEXANDER, Hugh, Chief Sanitary Inspector, Shoreditch, 148, Church Road, Islington, N.
- ALFORD, Henry J., M.D., Heidelberg House, Taunton.
- ALGLAVE, Prof., 27, Avenue de Paris, Versailles.
- ALLAN, Francis John, M.D., Ed., D.P.H., Camb., 53, Devonshire Street, Portland Place, W.
- ALLCHIN, W. H., M.B., F.R.C.P., 5, Chandos Street, Cavendish Square, W.
- ALLEN, E. E., C.E., 55, Charing Cross, S.W.
- ALLFABURN.
- ALLFREY, Charles Hy., M.D., M.R.C.P., F.R.C.S., D.P.H., Plas Newydd, Prince's Road, St. Leonards-on-Sea.
- ALLWAY, M. M. G.
- ALLWORTHY, Samuel W., M.A., M.D., Dubl., Mosaphir, Cave Hill Road, Belfast.



- ALQUIER, Louis Auguste, Commissaire de la Marine, Chevalier de la légion d'Honneur, La Rochelle, France.
- ALTHAUS, Julius, M.D., 48, Harley Street, Cavendish Square, W.
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- AMBT, Monsieur C. M.DAN.C., H.V.P.S. VII., Ingénieur en Chef de la Ville de Copenhagen.
- AMOS, Mrs. Sheldon, 5, Upper Woburn Place, W.C.
- ANCARD, Jose Matthias da Silva, Student of the Polytechnic School, Lisbon.
- ANDERSON, J. Macvicar, Pres.R.I.B.A.; 6, Stratton Street, W.
- ANDERSON, Alfred Jasper, M.A., M.B. Oxon., D.P.H. Cantab, M.O.H., Public Health Offices, Blackpool.
- ANDERSON, Daniel E., M.D. Paris, M.B. Lond., 5, Rue de Bois de Boulogne, Paris.
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- ANDERSON, John, M.D., C.I.E., M.R.C.P., C.S. VIII., 105, Gloucester Place, Portman Square, W.
- ANDERSON, James, M.A., M.D., F.R.C.P., 41, Wimpole Street, Cavendish Square, W.
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- ANDERSON, Wm., D.C.L., F.R.S., Lesney House, Erith, Kent.
- ANDERSON, Winslow, M.D., M.R.C.P. Lond., M.R.C.S. Eng., Editor "Pacific Medical Journal," 829, Broadway, San Francisco, California.
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- ANDREW, Capt. C. W., F.R.G.S., 22, Brixton Road, S.W.
- ANDREW, James, M.D. Oxon, 22, Harley Street, W.
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- ANDREWS, T. N., 4, Gordon Terrace, Plymouth.
- ANGELL, Lewis, M.Inst.C.E., F.R.I.B.A., C.S. VI., Town Hall, West Ham, E.
- ANGOVE, Wm. Collier, Hon. Commander R.N.R., C.S. VIII., Snaresbrook, Essex.
- ANNINGSON, Bushell, M.D., M.A., Walthamsal, Barton Road, Cambridge.
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- APOTHECARIES, The Society of.
- APPLETON, Jas. M., M.D., M.R.C.S., L.S.A., 27, Gilston Road, S.W.
- ARATA, Dr. T., Royal Institute of Hygiene, Rome.
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- ARLOING, Professor, H.V.P.S. II., Lyons, France.
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- ARMISTEAD, Mrs. William, Shelford, Cambs.
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## LIST OF DONATIONS.

|                                                             | £   | s. | d. |
|-------------------------------------------------------------|-----|----|----|
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|----------------------------------------------------------------|----|----|----|
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|                                            | £  | s. | d. |
|--------------------------------------------|----|----|----|
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|                                                   | £ | s. | d. |
|---------------------------------------------------|---|----|----|
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| Professor E. Frankland, LL.D., F.R.S.             | 5 | 5  | 0  |
| James M. Gale                                     | 5 | 5  | 0  |
| Sir Wm. Gilstrap, Bart.                           | 5 | 5  | 0  |
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| The Medical Officers of Schools Association       | 5 | 5  | 0  |
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| The Corporation of Oxford                         | 5 | 5  | 0  |
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|                                                        | £ | s. | d. |
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| The Salters' Company - - - -                           | 5 | 5  | 0  |
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| Professor J. B. Sanderson, M.D., F.R.S. - - - -        | 5 | 5  | 0  |
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| The Sanitary Association of Scotland - - - -           | 5 | 5  | 0  |
| G. J. Symons, F.R.S. - - - -                           | 5 | 5  | 0  |
| R. Thorne Thorne, M.B., F.R.S. - - - -                 | 5 | 5  | 0  |
| The Vegetarian Federal Union - - - -                   | 5 | 5  | 0  |
| Aston Webb - - - -                                     | 5 | 5  | 0  |
| Alderman Sir James Whitehead, Bart. - - - -            | 5 | 5  | 0  |
| John Williams, M.D., F.R.C.P. - - - -                  | 5 | 5  | 0  |
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| Sir Frederick Bramwell, Bart., F.R.S. - - - -          | 5 | 0  | 0  |
| The Charity Organisation Society - - - -               | 5 | 0  | 0  |
| G. E. Church - - - -                                   | 5 | 0  | 0  |
| The Corporation of Heywood - - - -                     | 5 | 0  | 0  |
| N. J. Ede - - - -                                      | 5 | 0  | 0  |
| Philip Frank, M.D. - - - -                             | 5 | 0  | 0  |
| Sir Joseph Fayrer, K.C.S.I., F.R.S. - - - -            | 5 | 0  | 0  |
| Percy Gilchrist - - - -                                | 5 | 0  | 0  |
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| Robt. Pullar - - - -                                   | 5 | 0  | 0  |
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| The Marquis of Ripon, K.G. - - - -                     | 5 | 0  | 0  |
| E. Seaton, M.D., F.R.C.P. - - - -                      | 5 | 0  | 0  |
| Sir John Simon, K.C.B., M.D., F.R.S. - - - -           | 5 | 0  | 0  |
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| B. Woodd Smith - - - -                                 | 5 | 0  | 0  |
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|                                                | £ | s. | d. |
|------------------------------------------------|---|----|----|
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| Charles T. Williams, M.D., F.R.C.P.            | 5 | 0  | 0  |
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| Hubert Airy                                    | 3 | 3  | 0  |
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| Surgeon-General W. B. Beatson, M.D.            | 3 | 3  | 0  |
| Marcus Beek, F.R.C.S.                          | 3 | 3  | 0  |
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| George Berkley, Pres. C.E.                     | 3 | 3  | 0  |
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| James D. Bradshaw                              | 3 | 3  | 0  |
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| Alfred Carpenter, M.D.                         | 3 | 3  | 0  |
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| Thomas Chatfield Clarke                        | 3 | 3  | 0  |
| T. E. Collentt, F.R.I.B.A.                     | 3 | 3  | 0  |
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| Rt. Hon. L. H. Courtney, M.P., P.C.            | 3 | 3  | 0  |
| Messrs. Crosse and Blackwell                   | 3 | 3  | 0  |
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| Surgeon-General J. H. M. Cunningham            | 3 | 3  | 0  |
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| Francis Fowke                                  | 3 | 3  | 0  |
| Dosabhoi Franiiji                              | 3 | 3  | 0  |
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| T. W. Grimshaw, M.D. - - - - -                         | 3 | 3  | 0  |
| T. Holmes, F.R.C.S. - - - - -                          | 3 | 3  | 0  |
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| Jonathan Hutcheson, F.R.S., F.R.C.S. - -               | 3 | 3  | 0  |
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## I N D E X

OF

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## A.

- Abbott, Samuel W., M.D., I., 123 ; IX., 74, 117.  
 Abraham, Phineas S., M.D., I., 384.  
*Adami, J.G., M.B.*, II., 178.  
*Adams, Matthew A.*, I., 146, ; III., 186.  
 Addison, Surgeon C.J., A.M.S., VIII., 126.  
*Aitchison, Professor*, VI., 39.  
*Aithen, Russell*, XI., 105.  
 Alexander, Hugh, IX., 66, 147.  
*Allan, Dr.*, VI., 70.  
*Alliot, A.*, VII., 221.  
*Amos, Mrs. S.*, IX., 66.  
 Anderson, William, D.C.L., VII., 129.  
*Anderson, A.*, VII., 184.  
*Anderson, J.T.N.*, VII., 36.  
*Anderton, T.*, IX., 153.  
 Ardeshir, Dinshah, XI., 159.  
*Arlidge, Dr.*, X., 66.  
 Arloing, Professor, II., 176, 209, 272.  
*Armstrong, Dr. H.E.*, I., 315 ; III., 150, 169 ; VIII., 24, 30.  
*Arthur, Dr.*, I., 218.  
 Ashburner, Lionel, XI., 145.  
*Atha, John*, VI. 45, 120, 138.  
 Atkinson, Dr., IX., 201.

## B.

- Babes, Professor V., II., 98, 178 ; III., 22.  
 Bahadhurji, K.N., M.D., V., 88 ; X., 232, 245 ; XI., 112, (235), 248.

- Baker, Lloyd*, IV., 175, 202.  
*Balfour, D.*, VII., 43.  
*Balfour, Graham*, IV., 16; X., 336.  
*Ballance, Charles A.*, F.R.C.S., II., 70.  
*Ballard, Edward*, M.D., III., 102.  
*Bang, Professor*, II., 193.  
*Banks, Sir John*, K.C.B., I., 182; IX., 29.  
*Bardach, Dr. J.*, II., 209; III., 35.  
*Barlow, Dr.*, II., 208.  
*Barrett, W. F.*, M.R.C.V.S., III., 202.  
*Barrington, Sir V.K.*, I., 217, 260; VIII., 134.  
*Barwise, Dr. S.*, V., 88.  
*Bash, Dr.*, X., 67.  
*Basing, The Lord*, IX., 7.  
*Bäumler, Professor*, II., 59; XIII., 33.  
*Beach, Dr. Fletcher*, IV., 16, 203, 224; X., 335.  
*Beatson, Surgeon-General*, M.D., I., 77, 316.  
*Bechmann, Monsieur G.*, VII., 35, 102, 117.  
*Beckwith, H.L.*, VI., 118.  
*Behring, Dr.*, II., 239.  
*Belmds, Monsieur*, XIII., 26.  
*Below, Dr. Ernst.*, IX., 36.  
*Bentzen, Dr.*, XIII., 28.  
*Berdoe, E.*, M.R.C.S., IX., 202, 236.  
*Bergeron, Dr. J.*, I., 113.  
*Berrington, R.E.W.*, VII., 89.  
*Bertillon, Dr. Alphonse*, X., 303.  
*Bertillon, Dr. Jacques*, X., 23, 303.  
*Besant, Mrs. A.*, IV., 195; IX., 236.  
*Bhownaggree, M. M.*, XI., 148.  
*Biddle, D.*, M.R.C.S., IX., 174, 204.  
*Bidie, Surgeon-General*, XI., 112.  
*Biggs, Councillor*, IX., 21.  
*Binnie, Alexander R.*, VII., 100, 118, 227, 252.  
*Blackwell, Dr. Elizabeth*, III., 55.  
*Blair, W.N.*, VI., 155.  
*Blanchard, Dr. Raphael*, III., 88, 127.  
*Blashill, Thomas*, VI., 31, 33, 121.  
*Blomfield, Sir Arthur*, VI., 7, 77, 156.  
*Böhmert, Professor V.*, I., 218; X., 66, 108.  
*Bonna, Monsieur Aimé*, VII., 65.  
*Bond, Edward*, VI., 40, 117.  
*Boobyer, Philip*, M.B., IX., 166.  
*Bordoni-Uffreduzzi, Dr.*, III., 42.  
*Borthwick, Thomas*, M.D., XII., 171.  
*Bostock, Deputy Surgeon-General*, C.B., I., 260.  
*Bouhon, Mons. F.*, VI., 71, 88.  
*Boulnois, H. Percy*, VII., 223, 228; XII., 101.  
*Boulton, William*, V., 63.



- Bremner, G. H., V., 62.  
 Brett, Dr. A., IX., 116.  
 Broman, Allan, IV., 114.  
 Bronner, Adolph, M.D., IV., 252.  
 Brouardel, P., M.D., I., 13, 74; IX., 113; XIII., 19.  
 Brousse, Dr. Paul, X., 336.  
*Brown, Brigade-Surgeon Burton*, VIII., 53.  
*Brown, Dr. W.*, IV., 130.  
*Brown, Professor, C.B.*, III., 56, 100, 129, 153, 167, 187, 220.  
 Browne, Lennox, VI., 56, 72.  
 Bruce, William, M.D., II., 41; VII., 218; IX., 246.  
*Brydges, E. T.*, VI., 42.  
 Buchan, A, F.R.S.E., V., 98, 105, 111.  
*Buchan, W.P.*, VI., 51; VII., 40; IX., 116.  
*Buchanan, G., M.D., F.R.S.*, I., 21; XIII., 29.  
 Buchner, Dr. Hans, II., 124, 179, 271.  
 Buijwid, Dr. O., III., 51.  
 Burg, C. L. Van de, M.D., X., 170.  
 Burgerstein, Dr. Leo, IV., 87, 109.  
 Burne, Sir Owen T., XI., 184; XIII., 28.  
 Burroughs, S. M., VI., 43, 45, 118; IX., 60.  
*Butler, Mrs. J.*, IX., 235.  
 Byramjee, Burjorjee, XI., 149.

## C.

- Cabello, Dr. Vincente*, I., 78.  
 Cacheux, Émile, VI., 81.  
 Caffort, Charles, IX., 103.  
 Campbell, F. J., IV., 224.  
 Cameron, Sir C., V., 88, 92, 98, 117; IX., 22, 29; XIII., 9.  
 Cameron, J. Spottiswoode, M.D., VI., 50; IX., 164, 203.  
 Caröe, W.D., VII., 52.  
 Carpenter, Alfred, M.D., V., 48, 54.  
 Carsten, Dr. B., III., 56.  
*Cassal C.E.*, V., 75, 117, 119.  
 Cassidy, J. J., M.D., IX., 13, 22.  
 Castelli, Dr. Leonida, I., 182.  
*Cates, Arthur, V.P.R.I.B.A.*, IX., 124.  
*Cayley, Professor*, I., 77; VIII., 108.  
 Cazin, Dr. Maurice, II., 81.  
 Celli, Dr. Angelo, II., 20.  
*Chalmers, Dr.*, IV., 201.  
*Chapman, Dr.*, IX., 36, 236.  
 Chanveau, Professor, III., 154, 203, 246.  
*Cheadle, Dr.*, IV., 26.  
 Chotalall, Runchorelal, XI., 166; (XII., 151).  
 Christmas, J. de, II., 173.  
*Church, A.*, VII., 182.  
*Clarke, Ernest*, III., 247.

- Coe, J. F.*, IX., 21.  
*Cohen, S.*, VIII., 58.  
*Coler, Dr. von*, I., 15 ; VIII., 113.  
*Collingridge, Dr.*, VIII., 29, 51.  
*Collins, H. H.*, VI., 16, 42, 51, 76, 119.  
*Collins, Dr. W. J.*, III., 151.  
*Colman, H. G.*, *Ph. D.* V., 75.  
*Coode, Sir John*, VII., 7, 37, 117, 188, 223, 260.  
*Cook, Surgeon-General, M.D., F.R.C.P.*, I., 76, 331 ; II., 19 ; X., 242 ;  
 (XI., 245).  
*Cooper, A. D.*, II., 19 ; XI., 143.  
*Copeman, S. Monckton, M.D.*, II., 319.  
*Coppinger, R. W.*, M.D., VIII., 26, 31.  
*Corbet, T.*, IX., 202.  
*Corbey, Professor*, IX., 153.  
*Corfield, Professor*, XI., 183 ; XIII., 19, 37, 45.  
*Cornish, Surgeon-General, C.I.E.*, XIII., 29.  
*Corradi, Professor A.*, IX., 163.  
*Cotton, H. J. S.*, XI., 173 ; (XII., 159).  
*Courtney A.*, V., 37.  
*Covernton, Dr.*, IX., 21, 201.  
*Craik, Dr.*, IX., 21.  
*Crawford, R.*, XIII., 9.  
*Crimp, W. Santo*, VII., 45, 63.  
*Cripps, A.*, V., 63.  
*Crookshank, Professor E. M.*, II., 18, 67, 68, 105, 326 ; III., 148, 192,  
 203.  
*Csatár, Dr. L. Csatóry de*, VII., 119 ; XIII., 27.  
*Cuningham, Surgeon-General J. M., C.S.I., M.D.*, I., 37.  
*Cunningham, George, M.A.*, IV., 71 ; VIII., 59 ; IX., 256 ; X., 335.  
*Curgenvén, J. B., M.R.C.S.*, I., 378.  
*Curnow, John, M.D.*, VIII., 47.  
*Cuypers, Dr. P. J. H.*, VI., 51.

## D.

- Day, Ernest*, VI., 138.  
*Davies, A. M., D.P.H.*, VIII., 84, 108.  
*Davies, Reverend J. Ll.*, IV., 191.  
*Delépine, Dr. S.*, II., 85, 107, 222, 235, 328 ; V., 37.  
*Desguin, Dr. Victor*, IV., 175.  
*D'Espine, Professor*, I., 160.  
*Dhurandhar, K. V.*, XI., 136.  
*Diggie, Joseph R.*, IV., 7.  
*Dimitrescoy, Dr.*, VIII., 72.  
*Dolan, Dr.*, VI., 71.  
*Dooremaal, Dr. J. C. van*, I., 232.  
*Down, Dr. J. Langdon*, IV., 18.  
*Doyen, Dr.*, III., 197.

*Drown, Dr. T. M.*, V., 88.  
*Drysdale, C. R., M.D.*, III., 54 ; V., 62 ; IX., 202, 235.  
*Duchaussoy, Dr.*, VIII., 40, 117.  
*Duckworth, Sir Dyce, M.D.*, I., 191.  
*Dudfield, Dr.*, I., 315.  
*Duff, Sir M. Grant*, XI., 13, 184.  
*Duguid, W.*, F.R.C.V.S., III., 211, 247.  
*Duncan, Dr. E.*, IX., 116 ; X., 65.  
*Duplay, Professor Simon*, II., 81.  
*Dupré, A.*, F.R.S., V., 39.

## E.

*Edinburgh, Lord Provost of*, XIII., 8.  
*Ehrlich, Dr. P.*, II., 177, 211, 221.  
*Elliott, W. N.*, VI., 42 ; XIII., 10.  
*Emden, Walter*, VI., 71.  
*Emmerich, Dr. Rudolf*, II., 152.  
*Emmett, Dr. W.*, I., 383.  
*Engel, Bey, Dr. Franz*, X., 196.  
*Escherich, Dr.*, I., 163 ; IV., 221.  
*Ewart, Surgeon-General Joseph*, I., 77 ; X., 185.  
*Ewing, W.A., M.D.*, IX., 203.

## F.

*Faria, Senor P. Garcia*, VII., 252 ; X., 113.  
*Fawitzky, Dr. Alexander*, II., 152.  
*Fayrer, Sir Joseph, K.C.S.I., F.R.S.*, I., 27, 76 ; XIII., 38.  
*Fejeda, Dr.*, II., 231.  
*Félix, Professor Jules*, I., 119 ; VIII., 115, 122, 142, 144 ; XIII., 35.  
*Felkin, R.W., M.D.*, I., 56, 248 ; X., 155.  
*Fenger, Professor*, VI., 11.  
*Féraud, Dr. Bérenger*, VIII., 23, 40.  
*Féret, Monsieur A.*, IV., 108.  
*Fermi, Dr. Claudio*, VII., 138.  
*Fernando, Solomon, M.B.*, XI., 162.  
*Few, Rev. C.E.*, VI., 132, 139.  
*Field, Rogers*, VI., 16, 31, 154.  
*Finkelburg, Professor*, I., 171.  
*Finkelstein, Dr. T.*, III., 47.  
*Fleming, George, C.B.*, III., 16, 128, 170, 186, 203, 219.  
*Fletcher, Alfred E.*, V., 28 ; IX., 66.  
*Fletcher, Banister*, VI., 154.  
*Fleury, Dr. C.M.*, X., 57.  
*Foà, Professor*, II., 172.  
*Fodor, Professor Josef v.*, II., 177, 282.  
*Földes, Dr. Bèla*, X., 258.  
*Fosbrooke, Dr.*, VI., 137.

- Fotino, Dr. A., VIII., 32.  
 Fowke, Miss Fannie, X., 329.  
*Fowke, Francis*, I., 231.  
*Fox, Dr. T.C.*, IV., 29.  
 Francis, Surgeon-General C.R., IX., 249 ; (XI., 216).  
 Frankland, P.F., F.R.S., II., 291, 310 ; V., 82 ; VII., 169, 185.  
*Frankland, Dr. E.*, VII., 112.

## G.

- Gallaudet, Dr.*, IV., 262.  
 Galton, Sir Douglas, K.C.B., I., 9 ; XI., 183 ; XIII., 7, 10, 11, 30, 36, 38, 39, 41.  
 Galton, Francis, F.R.S., X., 7, 292, 301.  
 Garnett, Professor, IX., 139, 153.  
 Garrett, J.H., M.D., V., 75.  
*Gauster, Dr. Moritz*, IV., 17.  
*Gemmell, Dr.*, IX., 203.  
*Gennadius, H.E. Monsieur J.*, XIII., 26.  
 Ghole, R.H. Vishram Ramji, XI., 128.  
*Gibbon, Dr.*, V., 93.  
 Gibert, Dr., I., 119, 178.  
*Gilbert, Dr. J.H.*, V., 61, 110.  
 Giles, Dr. G.M., X., 184.  
*Gladstone, Dr.*, IV., 109.  
*Godfrey, Dr.*, VIII., 107.  
 Godwin, Brigade-Surgeon C. H. Y., VIII., 122, 135.  
*Goff, Miss A.*, IX., 36.  
 Gomess, A.B., V., 37.  
*Goodall, Thomas B.*, F.R.C.V.S., III., 201, 246.  
 Goodfellow, John, F.R.M.S., V., 111.  
 Gosio, Dr. B., II., 316.  
 Gould, Dr. Engel, VI., 16 ; IX., 38, 66.  
 Grantham, R.F., VII., 149, 159.  
*Granville, J.M., M.D.*, V., 111.  
 Greene, Pasha, I., 241.  
 Greene, Richard, F.R.C.P., VI., 139, 156.  
 Greenleaf, Lieut.-Colonel, C.R., X., 291.  
*Greulich, Herman*, X., 106.  
*Griever, Dr. R.*, I., 76.  
*Grimsshaw, Dr. T.W.*, IV., 175 ; VI., 119 ; IX., 29 ; X., 153.  
 Grossheim, Dr., VIII., 139.  
 Grüber, Dr. Max, II., 41, 65, 255, 271.  
*Gruber, Professor T.V.*, VI., 50.  
*Guillaume, Dr.*, X., 307.  
*Günther, Dr.*, I., 161.  
 Gutzmann, Dr. II., IV., 241, 263.  
*Guye, Professor*, IV., 221.



## H.

- Haden, F. S., F.R.C.S., IX., 86, 117.  
*Hall, Edwin T.*, VI., 41.  
*Hall, Joseph*, VII., 221.  
 Hallet, Holt S., X., 219, 244; (XI., 222, 247).  
 Hamer, John, IX., 57.  
*Hambleton, Dr.*, VIII., 116.  
 Hamilton, Dr. J., II., 95, 204.  
 Hamilton, Rowland, F.S.S., X., 67, 154, 243; (XI., 246).  
 Hankin, E. H., B.A., II., 145.  
*Hannam, A.*, VI., 77, 118.  
 Harpur, W., VII., 157; XII., 41.  
*Harris, Dr. A. E.*, VIII., 25, 31, 58.  
*Harrison, J. Thornhill*, VII., 228.  
*Hart, Ernest*, V., 26; IX., 118; X., 336.  
 Hartog, Philip, V., 22.  
 Hasse, Dr. Ernst, IV., 212.  
*Harvey, Brigade-Surgeon*, VIII., 104; IX., 235; XI., 104.  
*Haughton, Dr. E.*, V., 26, 63; IX., 36.  
*Hanser, Dr.*, I., 316.  
 Haviland, Alfred, X., 186.  
*Hay, Professor*, IX., 153.  
*Hector, Brigade-Surgeon, M.B.*, VIII., 71, 131.  
 Hendley, Surgeon-Major T. H., XI., 89.  
 Henrot, Henri, VII., 84.  
 Hewitt, C. N., M.D., I., 60, 107; IX., 200.  
*Hewitt, Graily, M.D.*, I., 231.  
*Hill, Dr. A.*, III., 153; IX., 153.  
*Hill, Miss Davenport*, IV., 174.  
*Hill, Dr. W.*, IV., 223.  
*Hime, Dr. T. W.*, II., 206; III., 53, 56, 152, 219, 247; VII., 58.  
 Hine, G. T., VI., 145, 156.  
 Hofmann, Professor E. R. von, IV., 219.  
 Högyes, Professor A., III., 30.  
*Holden, Dr.*, IV., 202.  
*Holman, Stephen*, VII., 59.  
 Holmes, Mrs. Basil, VI., 11.  
 Holroyde, J., IX., 227.  
*Hooper, F.*, VI., 118.  
 Hueppe, Professor, II., 20, 28, 175, 220, 263.  
*Hunting, W., F.R.C.V.S.*, III., 150.  
*Hutton, Dr. H. R.*, IV., 70.

## I.

- Ibrahim, Pacha, XIII., 34.  
*Ince, Surgeon-Major J.*, IX., 117.  
*Ivanoff, M. Serge*, III., 200.

## J.

- Jaekson, J., IV., 47.  
 Jaeobi, Dr. A., IV., 17, 57.  
*Janssens, Dr.*, I., 162.  
*Jeaffreson, G. E., M.R.C.S.*, VI., 137.  
*Johnson, B.*, VI., 16.  
*Jones, Colonel, A., F.C.*, V., 62; VII., 35.  
 Jones, Charles, VII., 188, 222; XII., 58.  
*Jones, Reverend H.*, VI., 41.  
*Judge, Mark, A.R.I.B.A.*, IX., 66, 124, 153.  
 Jurasehek, Professor F. von, X., 107, 337; XIII., 32.

## K.

- Kerr, Norman, M.D.*, I., 212.  
 Kingscote, Sir Nigel, K.C.B., III., 7, 154, 171, 246-7-8.  
*Kinhead, Professor*, I., 214.  
*Kirchner, Dr.*, VIII., 114, 141.  
 Kirtikar, Surgeon-Major K. R., XI., 113.  
*Kitasato, Dr.*, II., 177.  
 Klein, E., M.D., III., 130.  
*Knapp, Professor*, X., 154.  
 Koch, Dr. J. L. A., IV., 212.  
 Körösi, Dr. J., I., 17; X., 64, 262, 292; XIII., 21.  
 Kotelmann, Dr. L., IV., 53, 109, 224, 247.  
 Kowalkowsky, Professor M., X., 255.  
 Kraïouchkine, Dr. V., III., 46.  
 Kuborn, Dr., IV., 95, 137.  
 Kümmel, W., VII., 116, 159, 183, 229, 252.  
*Kusý, Dr.*, XIII., 23.

## L.

- Laing, David*, XIII., 10.  
 Lane, W. Arbuthnot, F.R.C.S., IV., 103.  
 Latham, Baldwin, VII., 18, 41, 44, 62, 115, 145, 155, 181; XI., 111 (197).  
 Latour-Tolosa, Dr. M. de, IV., 254.  
 Laveran, Professor A., II., 10, 20.  
 Lawford, G. M., VI., 78.  
*Lawrence, Reverend F.*, IX., 115.  
 Laws, W. George, M.Inst.C.E., VII., 210, 222.  
*Lawson, Sir C.*, XI., 184.  
 Lawson, Inspector-General, Q. H. P., I., 43, 259; IX., 235.  
*Leduc, Dr.*, I., 72, 231, 331.  
*Leffingwell, Dr. A.*, X., 244, 292; (XI., 247).  
 Lehmann, Professor K.B., V., 63; XIII., 30.  
 Lemon, James, M.Inst.C.E., VII., 24, 44.  
 Levasseur M., X., 131.  
*Linroth, Dr. Klas*, XIII., 28.

- Lister, Sir Joseph, Bart., F.R.S., II., 9.  
 Lodge, Dr. Samuel, Jr., II., 238 ; III., 218.  
 Logie, Dr. V., VIII., 110.  
*Longstaff, Dr. G. B.*, V., 104, 110 ; VI., 39 ; X., 292.  
 Longuet, Dr. R., VIII., 135.  
 Lucas, Charles, VI., 11, 32.  
*Lyon, Washington*, VII., 220 IX., 255.

## M.

- McFadycan, Professor, II., 197 ; III., 149, 187, 202.  
 Macfadyen, Allan, M.D., II., 60.  
*McGann, Brigade-Surgeon*, I., 73 ; XI., 108.  
*Mackison, W. M.*, VI., 154, 156.  
*Maclagan, General R.*, VII., 157.  
 McWeeney, Edmond J., M.D., II., 294.  
 Magnus, Sir Philip, IV., 123.  
*Maguire, W. R.*, V., 82.  
*Maiguen, P. A.*, VII., 111, 158, 185, 250  
 Manchester Field Naturalists' Society, V., 22.  
 Manchester, Mayor of, XIII., 10.  
*Manning, A.*, VII., 219.  
 Manson, Patriek, M.D., I., 79.  
 Marcet, W., F.R.S., V., 93.  
*Margerison, George*, IV., 174.  
 Marggraff, Stadtrath, VII., 91.  
*Mark, J.*, V. 37.  
 Markham, Clements R., C.B., X., 178.  
*Marston, Surgeon-General*, VIII., 71, 104.  
*Mason, Dr. J. W.*, VIII., 25.  
 Matthews, William, M.Inst.C.E., VII., 108.  
 Mault, A., VII., 31, 40, 183.  
*Mauunsell, Brigade-Surgeon T.*, VIII., 106.  
*Mavor, Professor J.*, IV., 202.  
 Mayr, Dr. G. von, X., 84, 337 ; XIII., 34.  
 Meath, The Earl of, IV., 118, 202 ; VI., 11.  
 Mesnil, Monsieur Du, IX., 113.  
 Metchnikoff, Professor, II., 179, 229.  
 Meyer, J. F., VII., 205.  
*Meyer, Surgeon-General, W. J. de*, VIII., 117.  
*Meijer, Professor Van Overbeek de*, VII., 44, 62 ; XIII., 27.  
 Middleton, Reginald E., M.Inst.C.E., VII., 27, 260.  
 Migerka, Dr., X., 110.  
 Miller, Dr. W. D., II., 42.  
 Milliet, E. W., I., 209 ; X., 62, 108, 185.  
 Mitchell, Sir A., V., 106.  
 Mitchell, William, IV., 131.  
 Moberly, General, IV., 17, 237.  
 Montizambert, Frederick, M.D. VIII., 10.

Moody, G. T., D.Sc., V., 117.

Moore, Surgeon-General Sir W., I., 323; X., 165; XI., 15, (189), (252).

Morris, Malcolm, F.R.C.S.E., IV., 27.

*Morris, Surgeon*, VIII., 132.

*Morse, J. R.*, VII., 185.

*Muir, Brigade-Surgeon H. S.*, VIII., 107.

*Murphy, Shirley*, IX., 200.

## N.

*Nasmyth, T. G., M.D.*, V., 93; VI., 137.

*Nevill, Ralph*, VI., 50, 76, 117.

Nevins, Dr. J. Birkbeck, IX., 204, 221, 237.

*Newbatt, B.*, X., 108.

Newsholme, Arthur, M.D., IX., 237.

Nigg, Marianne, IV., 186.

Nocard, Professor, II., 94, 205; III., 53, 199.

*North, W.*, II., 19; V., 105.

Notter, J. Lane, M.D., VIII., 30, 71, 79, 108; (XI., 210)

*Nyades, Dr. Paul*, VIII., 29.

## O.

Oelwein, Professor A., VII., 175.

Oesten, G., VII., 167.

*Odling, Professor W.*, F.R.S., V., 92, 98; VII., 117.

Ogier, Monsieur, IX., 113.

Ogle, W., M.D., F.R.C.P., X., 12, 67; XIII., 20.

*Oliver, Professor F. W.*, V., 26.

*Ollivant, E. C. K.*, C.I.E., XI., 100.

*Osmond, Walter M.*, XI., 113.

Ostertag, Professor, III., 55, 149, 155, 185.

*Owen, Isambard, M.D.* I., 216.

## P.

Paechiotti, Professor, VII., 17, 34, 44.

Pacheco, Don Modesto Martinez, VIII., 71.

Paget, Charles E., M.R.C.S., I., 152; IV., 67; XII., 136.

*Paget, Sir James, Bart.*, F.R.S., I., 20.

Pagliani, Professor, VII., 74.

*Pain, Coard S.*, VI., 39.

*Pankhurst, Dr.*, IV., 201; IX., 65.

*Parkes, Dr. Louis*, IX., 65, 200.

*Parsons, Dr. H.F.*, IX., 116.

Paterson W. B., X., 323.

*Payne, Dr.*, I., 331.

*Pearson, Dr. Leonard*, III., 166.

Perroncito, Professor E., II., 203, 208; III., 101, 168, 189.

*Perry, T. J.*, V., 62.

Philip, P. A., XII., 169.



- Phillips, John G., I., 210.  
 Pistor, Dr. M., I., 319.  
 Plumbe, Rowland, F.R.I.B.A., VI., 96, 122.  
 Plumbers Company, The Master of, XIII., 8.  
*Ponfick, Professor*, II., 221 ; III., 199.  
*Pool, Surgeon-Major*, I., 331.  
 Poore, G. V., M.D., XIII., 13, 21, 30, 36, 45.  
 Prendergast, Colonel, IV., 146 ; VI., 76.  
*Praagh, W. van*, IV., 264.  
 Priestley, W. O., M.D., I., 218.  
*Prince, Dr.*, IX., 21.  
 Pringle, Brigade-Surgeon R., I., 76 ; VII., 242 ; VIII., 105 ; IX., 235 ;  
 XI., 99, (203).  
 Prochnik, Dr., II., 301.

## R.

- Rae, Dr., F.R.S.*, VIII., 51.  
*Raffles, H.*, V., 27.  
 Railliet, Professor, III., 57.  
 Ransome, Arthur, M.D., F.R.S., I., 164.  
*Rawlinson, Sir R.*, VI., 155 ; XIII., 38.  
*Rawson, Sir R.*, X., 292.  
 Read, R., A.M.I.C.E., VII., 36, 47, 64.  
*Redfern, Professor*, III., 55.  
 Reid, Dr. George, IX., 125.  
*Rhodes, Dr. J. M.*, IV., 19 ; X., 154.  
*Richards, J. P.*, IV., 19, 224 ; X., 336.  
*Rideal, Dr.*, V., 82.  
 Ritter, Guillaume, VII., 160.  
*Robinson, Professor F. C.*, I., 217.  
*Robinson, Surgeon-Major G.S.*, VIII., 106.  
 Robinson, Professor H., M.Inst.C.E., VII., 11, 63, 111, 180.  
*Robinson, Dr. M. K.*, III., 170.  
*Robinson, R. A.*, VI., 45.  
*Rochard, Dr. Jules*, I., 54.  
 Rodet, Monsieur, II., 272.  
*Roe, J. T.*, V., 111.  
*Roechling, H. A.*, V., 59 ; VII., 38, 61, 227.  
 Roos, Dr. Van Hamel, V., 116 ; IX., 72.  
 Roscoe, Sir H., F.R.S., V., 7, 59, 111.  
*Ross, Dr. J. M.*, VI., 138.  
*Roth, Dr. W.*, I., 19.  
 Roussel, Dr. Théophile, III., 197 ; IV., 170, 196.  
*Routh, Dr.*, IX., 235.  
 Roux, Dr. E., II., 110, 253 ; III., 8, 56.  
 Roux, Monsieur M. G., II., 272.  
*Ruyseh, Dr. W. P.*, I., 76.

*Russell, Honourable R.*, V., 111.

Russel, Dr. W. J., F.R.S., V., 11, 75, 82, 105.

Rutherford, H., IX., 61.

## S.

Salmon, Dr. D. E., III., 171, 200, 247.

Salomon, Georges, IX., 91.

Sambon, Dr. Louis, XIII., 29.

Sanderson, J. Burdon, M.D., F.R.S., II., 184.

Sandwith, F.M., M.D., I., 346.

*Saunders, Dr. C. E.*, V., 62; VI., 154.

Scheibe, Dr., VIII., 144.

*Schloss, David F.*, X., 106.

Schmidt, Dr. E., IV., 212.

Schneider, Dr., VIII., 101, 143.

Schofield, A. T., M.D., IV., 119.

Sehönwerth, Dr. Arnulf, II., 306.

Schrevels, Dr., I., 100.

Seott, Miss M. E., IX., 242.

Seaton, Edward C., M.D., I., 98, 315.

*Seddou, J. P.*, F.R.I.B.A., VI., 76, 118.

*Seddon, Colonel H. C.*, VI., 77.

*Sell, Dr.*, XIII., 22, 39.

*Sergeant, Dr. E.*, III., 171; IX., 200.

Seth-Smith, W. H., P.S.Arch., IX., 119, 124.

Sewill, Henry, M.R.C.S., II., 57.

Shattock, Samuel, G., F.R.C.S., II., 70, 314.

Shelly, C. E., M.D., IV., 30.

Shuttleworth, G. E., M.D., IV., 15, 208.

Sibley, Walter K., M.D., II., 234.

*Sillar, W. C.*, V., 62.

Simon, Dr., IX., 10.

*Simpson, Sir Henry*, F.R.C.V.S., III., 55, 203.

Simpson, W. J., M.D., I., 61, 378; VII., 250; XIII., 35.

*Singer, Dr.*, X., 292.

Sisley, Richard, M.D., I., 236.

*Slater, John*, VI., 31.

Smart, Major C., X., 294.

Smith, Adolphe, F.C.S., X., 336.

Smith, Fred, M.R.C.V.S., III., 221.

*Smith, Professor Mayo*, X., 154.

*Smith, Noble*, F.R.C.S.E., IV., 19, 57, 118; VI., 117.

Smith, P. Gordon, F.R.I.B.A., VI., 90, 121.

*Smith, Solomon*, M.D., VII., 184.

*Smith, Wilberforce*, M.D., VI., 77.

Smith, W. Johnson, F.R.C.S., VIII., 47.

Sonsino, Dr. P., I., 97, 164, 218, 332; XIII., 28.

Spooner, W., M.R.C.S., VIII., 41, 54.

- Squire, J. E., M.D., I., 173; VIII., 96, 109.  
*Staples, Brigade-Surgeon*, I., 77; VIII., 103, 134.  
 Statham, H. Heathcote, VI., F.R.I.B.A., 33, 41, 50, 72, 78, 155.  
 Stékoulis, C., M.D., I., 56, 377; XIII., 32.  
*Stokvis, Projessor B. J.*, I., 75; X., 185.  
 Streatfield, F. W., V., 117.  
 Strümpell, Dr. L., IV., 212.  
 Stübben, J., VI., 17.  
 Sturges, Octavius, M.D., IV., 20.  
*Swanston, C. J., C.B.*, VIII., 52.  
 Swiatlowsky, B., X., 255.  
 Sykes, John F. J., M.B., VI., 16, 42, 102, 123, 156.  
*Sijmons, M.*, VII., 37.

## T.

- Tait, P. M.*, X., 107; XI., 104.  
*Taylor, Miss H.*, VIII., 53.  
 Taylor, J. Stopford, M.D., VIII., 18, 58; XII., 101.  
*Teale, Pridgin, F.R.C.S.*, V., 27.  
*Techner, Ludwig*, VI., 31.  
 Temple, Major R. C., XI., 178; (XII., 164).  
 Thomas, G. Danford, M.D., IX., 74.  
 Thompson, Sir Henry, IX., 79, 117.  
 Thompson, J. Ashburton, M.D., I., 49.  
*Thomson, Gilbert*, VII., 36.  
*Thomson, James*, VII., 37.  
 Thomson, T., M.B., IX., 52.  
 Thorne, R. Thorne, M.B., F.R.S., I., 72; VI., 123, 138.  
*Thornton, T. H., C.S.I.*, VII., 156; XI., 106.  
 Thresh, J. C., D.Sc., V., 40.  
*Thursfield, Dr.*, I., 162.  
 Thwaite, B. H., F.C.S., V., 27; X., 127.  
 Tkatchef, Madame A., M.D., X., 249.  
*Tomalsuri, B.*, VIII., 53.  
 Tomkins, Henry, M.D., IX., 29, 36.  
 Topley, W., F.R.S., X., 195.  
 Trélat, Professor Émile, VI., 45, 51.  
*Tripe, Dr.*, I., 161; V., 26, 105, 111.  
 Turner, Ernest, F.R.I.B.A., VI., 64.  
*Turner, George, M.B., M.O.H.*, III., 151.  
 Turner, J. S., X., 323.

## U.

- Unvala, Professor J. N., XI., 157.

## V.

- Vacher, Francis, F.R.C.S., III., 167, 177 ; IX., 139.  
*Vaillant, Dr.*, X., 62.  
 Vallet, Monsieur, II., 272.  
 Vaughan, Dr. Victor C, III., 118.  
 Venn, Dr. John, F.R.S., X., 308.  
 Vignard, Valentin, D. M. P., VIII., 14.  
 Vilanova Y Piera, Professor Don Juan, IX., 154  
 Vincent, Dr. H., II., 278.  
*Vivant, Dr.*, IX., 202.

## W.

- Wadia, The Honourable N.N., C.S.I.E.*, X., 242 ; (XI., 245).  
 Wakefield, T. F., VI, 137 ; XII., 124.  
 Wales, H. R. H. The Prince of, K.G., I., 11, 21.  
 Wales, Philip S., VII., 133.  
 Walford, Edward, M.D., D.P.H., VIII., 54, 58.  
*Walley, Professor*, III., 149, 169, 186, 201, 247.  
 Wantage, The Lord, K.C.B., V.C., VIII., 7.  
 Warner, Francis, M.D., F.R.C.P., IV., 10, 224 ; X., 315.  
 Watson, W., V., 21.  
*Wedderburn, Sir W., Bart.*, XI., 183.  
*Wells, Sir Spencer, Bart.*, IX., 115.  
 Westergaard, Professor Harald, I., 201.  
 Weyl, Th., VII., 203.  
*Whiley, Henry*, VII., 219, 223.  
 Whitaker, W., F.R.S., VII., 144.  
*Whitaker, Dr.*, IX., 21, 29.  
 White, George, LL.B., IV., 110.  
*White, William*, VI., 33.  
 Whymper, F. H., X., 76.  
*Williams, Dr., C. T.*, V., 26.  
 Williams-Freeman, J. P., M.D., I., 393.  
 Willoughby, E. F., M.D., VII., 140 ; IX., 13, 117, 201.  
*Wilson, H. J., M.P.*, IX., 236.  
 Wintle, Lieut-Colonel A. T., VIII., 144.  
 Woodhead, G. Sims, M.D., II., 197.  
*Woodhull, Lieut-Colonel*, VIII., 25 ; XIII., 25.  
 Worthington, Locke, A.R.I.B.A., VI., 114.  
 Wright, A. E., M.D., II., 164 ; IX., 32.  
 Wurtz, R., M.D., II., 238.

## Y.

- Young, Keith D., F.R.I.B.A., VI., 127.





## VOLUME I.

## PREVENTIVE MEDICINE.

## Table of Contents and Index.

## TABLE OF CONTENTS.

|                                                                                                                                                                                                                                        | Page |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| The Opening Meeting of the Congress - - - - -                                                                                                                                                                                          | 9    |
| PROCEEDINGS OF SECTION I.                                                                                                                                                                                                              |      |
| Presidential Address - - - - -                                                                                                                                                                                                         | 27   |
| The Mode of Preventing the Spread of Epidemic Disease from one country to another - - - - -                                                                                                                                            | 37   |
| Notes on the Transmission of Cholera from one country to another - - - - -                                                                                                                                                             | 43   |
| Australasian Maritime Quarantine: its Theory and Practice - - - - -                                                                                                                                                                    | 49   |
| Discussion - - - - -                                                                                                                                                                                                                   | 54   |
| Le Lazaret de Camaran "Mer Rouge," et le Choléra asiatique - - - - -                                                                                                                                                                   | 56   |
| Discussion - - - - -                                                                                                                                                                                                                   | 60   |
| Maritime Quarantine and Sanitation in relation to Cholera - - - - -                                                                                                                                                                    | 61   |
| Discussion - - - - -                                                                                                                                                                                                                   | 72   |
| The Geographical Distribution, Pathological relations, and Life history of <i>Filaria sanguinis hominis diurna</i> and of <i>F. Sanguinis hominis perstans</i> in connection with Preventive Medicine - - - - -                        | 79   |
| Discussion - - - - -                                                                                                                                                                                                                   | 97   |
| Diphtheria: with special reference to its Distribution and to the need for comprehensive and systematic Inquiry into the causes of its Prevalence in certain countries and parts of countries, with a view to its Prevention - - - - - | 98   |
| Contribution a l'étude des causes de la prédilection que montre la Diphtérie pour certains cantons: sa distribution en Belgique - - - - -                                                                                              | 100  |
| Diphtheria in Minnesota - - - - -                                                                                                                                                                                                      | 107  |
| Note sur la Prophylaxie de la Diphtérie - - - - -                                                                                                                                                                                      | 113  |
| Discussion - - - - -                                                                                                                                                                                                                   | 119  |
| De la Diphtérie au Havre, 1880-1889 - - - - -                                                                                                                                                                                          | 119  |
| The Distribution of Diphtheria in Massachusetts - - - - -                                                                                                                                                                              | 123  |
| The Relationship between the occurrence of Diphtheria and the movement of the Sub-soil Water - - - - -                                                                                                                                 | 146  |
| A local examination of the Difference in Susceptibility to Diphtheria between Old and New-Residents - - - - -                                                                                                                          | 152  |
| Discussion - - - - -                                                                                                                                                                                                                   | 160  |

|                                                                                                                                                                        | Page |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| On the Need of Special Measures for the Prevention of Consumption -                                                                                                    | 164  |
| The Influence of Soil on the Spread of Tuberculous Diseases -                                                                                                          | 171  |
| To what extent can Legislation assist in diminishing the Prevalence of Consumption and other Tuberculous Diseases? -                                                   | 173  |
| De la Phthisie pulmonaire au Havre, 1880-1889 -                                                                                                                        | 178  |
| Discussion -                                                                                                                                                           | 182  |
| The progress of Mortality from Tuberculosis, Typhoid, Diphtheria, Small-pox, Scarlatina, and Measles in Florence during the twenty-five years, 1866-1890 -             | 182  |
| The Relation of Alcoholism to Public Health, and the methods to be adopted for its Prevention -                                                                        | 191  |
| Alcoholism in relation to Public Health, and the methods to be adopted for its Prevention -                                                                            | 201  |
| Orientirendes über die Alkoholfrage in der Schweiz -                                                                                                                   | 209  |
| The Effects of Alcoholism on Public Health -                                                                                                                           | 210  |
| Discussion -                                                                                                                                                           | 212  |
| On the Improved Hygienic Condition of Maternity Hospitals -                                                                                                            | 218  |
| Discussion -                                                                                                                                                           | 231  |
| La Prévention de la Cécité professionnelle -                                                                                                                           | 232  |
| On the Prevention of the Spread of Epidemic Influenza -                                                                                                                | 236  |
| The Influence of the Nile on mortality in Egypt -                                                                                                                      | 241  |
| Observations on Malaria and Enteric Fever (including the so-called Typhomalarial and Blackwater Fevers), and on the possible Antagonism between Malaria and Phthisis - | 248  |
| Discussion -                                                                                                                                                           | 259  |
| The Hospital and Ambulance Organisation of the Metropolitan Asylums Board for the removal and isolation of cases of Infectious Disease -                               | 260  |
| Discussion -                                                                                                                                                           | 315  |
| The Prevention of Disease in growing Towns -                                                                                                                           | 316  |
| Ueber Desinfektion vom praktischen Standpunkte -                                                                                                                       | 319  |
| The Prevention of Fever in India -                                                                                                                                     | 323  |
| Discussion -                                                                                                                                                           | 331  |
| The principal and most efficacious Means of Preventing the Spread of Entozoa Affections in Man -                                                                       | 332  |
| Cholera in Egypt -                                                                                                                                                     | 346  |
| Discussion -                                                                                                                                                           | 377  |
| The Disinfection of Scarlet Fever and other infectious diseases by Antiseptic Injection -                                                                              | 378  |
| Discussion -                                                                                                                                                           | 383  |
| On the Alleged Connection of Vaccination with Leprosy -                                                                                                                | 384  |
| On the importance of more actively enforcing the Ventilation of Public and other Buildings, suggesting a Standard of impurity of air as a basis of prosecution -       | 393  |



## INDEX.

| <b>A.</b>                                                                                                                    |     | Page |                                                                                                                                                                                   | Page |
|------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Abbot (Sam. W., M.D.), The distribution of diphtheria in Massachusetts - - -                                                 | 123 |      | Ambulance, river service - -                                                                                                                                                      | 299  |
| Abraham (Phineas S., M.D.), On the alleged connexion of vaccination with leprosy - -                                         | 384 |      | — — —, daily return of patients admitted into fever hospitals -                                                                                                                   | 303  |
| Adams (Matthew A., F.R.C.S.), The relationship between the occurrence of diphtheria and the movement of the sub-soil water - | 146 |      | — — —, detail of work in 1890 -                                                                                                                                                   | 298  |
| Address, presidential opening, by H.R.H. the Prince of Wales -                                                               | 11  |      | — — — (land), number of cases removed - - -                                                                                                                                       | 297  |
| Ague and consumption, antagonism between - - -                                                                               | 256 |      | — — — steamers, particulars of -                                                                                                                                                  | 287  |
| Alcohol, effects of, on different races - - -                                                                                | 194 |      | — — — table showing the accommodation in each station -                                                                                                                           | 282  |
| — — —, misuse of - - -                                                                                                       | 197 |      | Anchylostoma, how acquired -                                                                                                                                                      | 338  |
| Alcoholism in relation to public health, and the methods to be adopted for its prevention. (Prof. Harald Westergaard) - -    | 201 |      | Antiseptic inunction, The disinfection of scarlet fever, and other infectious diseases by. (J. Brendon Curgenven) - - -                                                           | 378  |
| — — —, effect of, on public health -                                                                                         | 203 |      | Armstrong (Dr. H.), remarks in discussion on the Metropolitan Infectious Hospital and Ambulance Organisation - -                                                                  | 315  |
| — — — on public health, The effects of. (John G. Phillips) -                                                                 | 210 |      | Arthur (Dr.), remarks in discussion on alcoholism in relation to public health - - -                                                                                              | 218  |
| — — —, table showing mortality experience, 1884-88 -                                                                         | 211 |      | Australasian maritime quarantine, its theory and practice. (J. Ashburton Thompson, M.D.) -                                                                                        | 49   |
| — — — to public health, The relation of, and the methods to be adopted for its prevention. (Sir Dyce Duckworth, M.D.) - -    | 191 |      | — — — quarantine, leading principles of - - -                                                                                                                                     | 53   |
| Alexandria, state of Nile, in neighbourhood of - - -                                                                         | 244 |      |                                                                                                                                                                                   |      |
| Alkoholfrage in der Schweiz, Orientirendes über die. (E. W. Millicet) - - -                                                  | 209 |      | <b>B.</b>                                                                                                                                                                         |      |
| Alleged connexion of vaccination with leprosy, On the. (Phineas S. Abraham, M.D.) - -                                        | 384 |      | Banks (Sir John), remarks in discussion on tubercular disease -                                                                                                                   | 182  |
| Ambulance organisation, the Metropolitan. Regulations for the "removal of persons suffering from infectious diseases" -      | 300 |      | Barrington (Sir Vincent K.), remarks in discussion on alcoholism in relation to public health -                                                                                   | 217  |
| — — —, regulations to be observed by students attending the hospitals for clinical instruction -                             | 301 |      | — — — and Bostock (Deputy Surg. Gen.), The Hospital and Ambulance Organisation of the Metropolitan Asylums Board for the removal and isolation of cases of infectious disease - - | 260  |
|                                                                                                                              |     |      | Beatson (Surg. Gen.), remarks in discussion on quarantine and sanitation in relation to cholera -                                                                                 | 77   |
|                                                                                                                              |     |      | — — —, The prevention of disease in growing towns - -                                                                                                                             | 316  |

|                                                                                                                                                                                                       | Page |                                                                                                                                              | Page |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------|------|
| Bergeron (Dr. J.), Note sur la Prophylaxie de la Diphtérie -                                                                                                                                          | 113  | Cholera in Egypt. (F. M. Sandwith, M.D.) -                                                                                                   | 346  |
| Bilharzia, great and principal preventive against -                                                                                                                                                   | 336  | — —, accounts of from 1817 -                                                                                                                 | 346  |
| Black-water fever, remarks on -                                                                                                                                                                       | 253  | — —, nearly always preceded by disease at Mecca, table showing -                                                                             | 352  |
| Böhmert (Prof. Victor), remarks in discussion on alcoholism in relation to public health -                                                                                                            | 218  | — —, nomenclature -                                                                                                                          | 372  |
| Bostock (Deputy Surg. Gen.) and Barrington (Sir Vincent K.), The Hospital and Ambulance Organisation of the Metropolitan Asylums Board for the removal and isolation of cases of infectious disease - | 260  | — — in Northern Syria -                                                                                                                      | 372  |
| Brouardel (M. le Prof.), remarks in discussion on quarantine and sanitation in relation to cholera -                                                                                                  | 74   | — — in the Egyptian Army -                                                                                                                   | 360  |
| — —, remarks in reply to the address by the Prince of Wales -                                                                                                                                         | 12   | — — (malignant) causes of -                                                                                                                  | 44   |
| Buchanan (George, M.D.), vote of thanks to the Prince of Wales seconded by -                                                                                                                          | 21   | — —, Maritime quarantine and sanitation in relation to. (W. J. Simpson, M.D.) -                                                              | 61   |
|                                                                                                                                                                                                       |      | — — nostras, prevalence of, in warm weather -                                                                                                | 43   |
|                                                                                                                                                                                                       |      | — —, Notes on the transmission of, from one country to another. (Insp. Gen. Robert Lawson) -                                                 | 43   |
|                                                                                                                                                                                                       |      | — —, outbreak of, in London in connexion with the Broad Street pump -                                                                        | 65   |
|                                                                                                                                                                                                       |      | — —, outbreaks of malignant at points in advance of those which the disease had already reached in the epidemic form, New Orleans, in 1873 - | 44   |
|                                                                                                                                                                                                       |      | — —, Southampton, in 1856 -                                                                                                                  | 44   |
|                                                                                                                                                                                                       |      | — —, Toulon and Marseilles -                                                                                                                 | 44   |
|                                                                                                                                                                                                       |      | — —, in Rangoon, particulars of an outbreak of -                                                                                             | 66   |
|                                                                                                                                                                                                       |      | — —, presented by ships very differently under different circumstances -                                                                     | 46   |
|                                                                                                                                                                                                       |      | — — among Hindoos and Mahomedans, ratio of deaths from -                                                                                     | 61   |
|                                                                                                                                                                                                       |      | — —, relative incidence of, on the Hindoos, Mahomedans, and Europeans of Calcutta -                                                          | 62   |
|                                                                                                                                                                                                       |      | — —, table giving particulars of, in different towns and provinces of Egypt -                                                                | 362  |
|                                                                                                                                                                                                       |      | Coler (Dr. von), remarks in reply to the address by the Prince of Wales -                                                                    | 15   |
|                                                                                                                                                                                                       |      | Congress of Hygiene and Demography, opening meeting of Seventh International -                                                               | 9    |
|                                                                                                                                                                                                       |      | Consumption, antagonism between ague and -                                                                                                   | 256  |
|                                                                                                                                                                                                       |      | — —, Need of special measures for the prevention of. (Arthur Ransome, M.D.) -                                                                | 164  |
|                                                                                                                                                                                                       |      | — —, special measures for the prevention of -                                                                                                | 167  |
|                                                                                                                                                                                                       |      | Contents, table of -                                                                                                                         | 5    |
| <b>C.</b>                                                                                                                                                                                             |      |                                                                                                                                              |      |
| Cabello (Dr. Vineente), remarks in discussion on quarantine and sanitation in relation to cholera -                                                                                                   | 78   |                                                                                                                                              |      |
| Cairo, state of Nile at -                                                                                                                                                                             | 243  |                                                                                                                                              |      |
| Castelli (Dr. Leonida), The progress of mortality from tuberculosis, typhoid, diphtheria, small-pox, scarlatina, and measles in Florence during the 25 years from 1866 to 1890 -                      | 182  |                                                                                                                                              |      |
| Cattle plague in Egypt -                                                                                                                                                                              | 376  |                                                                                                                                              |      |
| Cayley (Deputy Surg. Gen., Prof.), remarks in discussion on quarantine and sanitation in relation to cholera -                                                                                        | 77   |                                                                                                                                              |      |
| Cécité professionnelle, La Prévention de la. (Dr. J. C. van Dooremaal). -                                                                                                                             | 232  |                                                                                                                                              |      |
| Cholera among British troops in Egypt in 1883 -                                                                                                                                                       | 359  |                                                                                                                                              |      |
| Choléra asiatique, Le Lazaret de Camaran "Mer Rouge" et le. (Dr. C. Stékoulis) -                                                                                                                      | 56   |                                                                                                                                              |      |
| Cholera at Mecca in 1890 -                                                                                                                                                                            | 367  |                                                                                                                                              |      |
| — — in 1891 -                                                                                                                                                                                         | 370  |                                                                                                                                              |      |
| — —, atmospheric influences on -                                                                                                                                                                      | 374  |                                                                                                                                              |      |
| — —, causes of 1883 epidemic -                                                                                                                                                                        | 362  |                                                                                                                                              |      |
| — — in Calcutta, history of a constant type of -                                                                                                                                                      | 66   |                                                                                                                                              |      |



|                                                                                                                                                        | Page |                                                                                                                                               | Page |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|
| Contribution à l'Étude des Causes de la Prédilection que montre la Diphtérie pour certains Cantons. Sa Distribution en Belgique. (Dr. Schrevels) - - - | 100  | Diphtérie, Intensité de la Maladie -                                                                                                          | 121  |
| Cook (Surg. Gen. Henry, M.D.), remarks in discussion on quarantine and sanitation in relation to cholera - - -                                         | 76   | —, Marche de la Maladie et Mode de Propagation - -                                                                                            | 120  |
| — — —, remarks in discussion on fever in India - - -                                                                                                   | 331  | —, Note sur la Prophylaxie de la. (J. Bergeron) - -                                                                                           | 113  |
| Corradi (Prof.), remarks in reply to the address by the Prince of Wales - - -                                                                          | 17   | —, Sa Marche en Belgique de 1851 à 1890 - - -                                                                                                 | 106  |
| "Craw-craw" common on the west coast of Africa - - -                                                                                                   | 84   | Diphtheria and croup, cities and towns of Massachusetts arranged in the order of their death-rates from - - -                                 | 140  |
| Cronp, mortality from, by months, 1837-90, in Minnesota - -                                                                                            | 112  | — and croup per 10,000 of the population in the State of Massachusetts, death-rates from - -                                                  | 138  |
| Cunningham (Surg. Gen. J. M.), The mode of preventing the spread of epidemic disease from one country to another - -                                   | 37   | — and the movement of the sub-soil water, The relationship between the occurrence of. (Matthew A. Adams, F.R.C.S.)                            | 146  |
| Curgenven (J. Brendon), The disinfection of scarlet fever and other infectious diseases by antiseptic inunction - - -                                  | 378  | — attacks in each of the four districts of the borough of Salford during the years 1883-90, tables showing the comparative incidence of - - - | 154  |
|                                                                                                                                                        |      | — diagram showing the annual number of deaths from 1866-90 in Florence from - - -                                                             | 184  |
|                                                                                                                                                        |      | — hospitals, map of London showing the position of the Metropolitan Board's fever and - -                                                     | 267  |
|                                                                                                                                                        |      | — in Massachusetts, The distribution of. (S. W. Abbott, M.D.)                                                                                 | 123  |
|                                                                                                                                                        |      | — in Minnesota. (Charles N. Hewitt, M.D.) - - -                                                                                               | 107  |
|                                                                                                                                                        |      | — in Minnesota, seasonal prevalence of - - -                                                                                                  | 108  |
|                                                                                                                                                        |      | — in relation to height and fluctuation of sub-soil water at Maidstone - - -                                                                  | 149  |
|                                                                                                                                                        |      | —, A local examination of the difference in susceptibility to, between old and new residents. (Charles E. Paget) - -                          | 152  |
|                                                                                                                                                        |      | —, mortality by sex from, in Minnesota - - -                                                                                                  | 109  |
|                                                                                                                                                        |      | — mortality, density of population in relation to, in the State of Massachusetts - - -                                                        | 139  |
|                                                                                                                                                        |      | —, mortality from, by months, 1887-90, in Minnesota - -                                                                                       | 111  |
|                                                                                                                                                        |      | — mortality, table showing the synchronous fall of enteric fever and rise of - - -                                                            | 99   |
|                                                                                                                                                        |      | —, progress of mortality from, in Florence, from 1866 to 1890. (Dr. Leonida Castelli) -                                                       | 182  |

## D.

|                                                                                                                                  |     |
|----------------------------------------------------------------------------------------------------------------------------------|-----|
| Damanhour, source of water-supply at - - -                                                                                       | 244 |
| Damietta, condition of - - -                                                                                                     | 365 |
| —, mortality and natality compared at - - -                                                                                      | 245 |
| Death-rates of England, comparison of during past times with the present - - -                                                   | 33  |
| De la Phthisie pulmonaire au Hâvre (1880-89). (Dr. Gibert) -                                                                     | 178 |
| Dermatose parasitaire, description of a case of - - -                                                                            | 85  |
| Desinfektion vom praktischen Standpunkte. (Dr. M. Pistor) -                                                                      | 319 |
| Diagram showing the annual number of deaths in the 25 years, 1866-90, in Florence from tuberculosis, typhoid, and diphtheria - - | 184 |
| Diarrhœa preceding cholera at Damietta - - -                                                                                     | 366 |
| Diphtérie au Hâvre, 1880-89. (Dr. Gibert) - - -                                                                                  | 119 |
| —, causes spéciales de la Maladie - - -                                                                                          | 121 |
| — de 1872 à 1887, Ville de Paris. Marche de la - - -                                                                             | 106 |
| —, distribution en Belgique. (Dr. Schrevels) - - -                                                                               | 100 |

|                                                                                                                                                                                                                                                    | Page |                                                                                                                                                                                                   | Page |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Diphthérie, table showing monthly average number of deaths from -                                                                                                                                                                                  | 183  | Entoza of man with their geographical distribution, synopsis of the exotic - - -                                                                                                                  | 344  |
| —, with special reference to its distribution and to the need for comprehensive and systematic inquiry into the causes of its prevalence, in certain countries and parts of countries, with a view to its prevention. (Edward C. Seaton, M.D.) - - | 98   | —, two practical divisions of -                                                                                                                                                                   | 335  |
| Directions to travellers, missionaries, residents, and others, in Africa, for the preparation and storing of slides of <i>Filaria Sanguinis</i> , &c. (Appendix II.)                                                                               | 96   | Epidemic disease, The mode of preventing the spread of, from one country to another. (J. M. Cunningham, M.D.) - -                                                                                 | 37   |
| Disinfection, The, of scarlet fever and other infectious diseases by antiseptic inoculation. (J. Brendon Curgenvin) - - -                                                                                                                          | 378  | Escherich (Dr.), remarks in discussion on diphtheria - -                                                                                                                                          | 163  |
| Duckworth (Sir Dyce, M.D.), The relation of alcoholism to public health, and the methods to be adopted for its prevention -                                                                                                                        | 191  | Espine (Prof. d'), remarks in discussion on diphtheria - -                                                                                                                                        | 160  |
| Dudfield (Dr.), remarks in discussion on the Metropolitan Infectious Hospital and Ambulance Organisation - - -                                                                                                                                     | 315  | Ewart (Dr. Joseph), remarks in discussion on quarantine and sanitation in relation to cholera -                                                                                                   | 77   |
| <b>E.</b>                                                                                                                                                                                                                                          |      | <b>F.</b>                                                                                                                                                                                         |      |
| Effects of alcoholism on public health. (John G. Phillips) -                                                                                                                                                                                       | 210  | Fayer (Sir Joseph, M.D., F.R.S.), Presidential address by - -                                                                                                                                     | 27   |
| Egypt, Cholera in. (F. M. Sandwith, M.D.) - - -                                                                                                                                                                                                    | 346  | —, remarks in discussion on quarantine and sanitation in relation to cholera - -                                                                                                                  | 76   |
| —, danger of crowded fairs to -                                                                                                                                                                                                                    | 371  | Félix (Prof. Dr.), remarks in discussion on Note sur la Prophylaxie de la Diphtérie - -                                                                                                           | 119  |
| —, The influence of the Nile on mortality in. (Greene Pasha) -                                                                                                                                                                                     | 241  | Felkin (Robert W., M.D.), Observations on malaria and enteric fever (including the so-called typho-malarial and black-water fevers) and on the possible antagonism between malaria and phthisis - | 248  |
| Emmett (Dr. W.), remarks in discussion on disinfection of scarlet fever, &c. by antiseptic inoculation                                                                                                                                             | 383  | —, remarks in discussion on methods for preventing the spread of epidemic disease -                                                                                                               | 56   |
| "England," outbreak of cholera on the steamship - - -                                                                                                                                                                                              | 46   | Fever and diphtheria hospitals, map of London, showing the position of the Metropolitan Asylums Board's - -                                                                                       | 267  |
| Enteric fever, mortality from, in Minnesota - - -                                                                                                                                                                                                  | 112  | Fever in India, The prevention of. (Sir William Moore) - -                                                                                                                                        | 323  |
| Entoza, compared with micro-organisms in their relations to man - - -                                                                                                                                                                              | 333  | Filaria in the blood, demonstration of embryo - - -                                                                                                                                               | 93   |
| Entozoal affections in man, The principal and most efficacious means of preventing the spread of. (Dr. Prospero Sorsino) -                                                                                                                         | 332  | Filaria sanguinis, cause of - -                                                                                                                                                                   | 336  |
| Entozoal disease, measures to be adopted for the prevention of -                                                                                                                                                                                   | 341  | — sanguinis hominis diurna. (Fig.) - - -                                                                                                                                                          | 80   |
| Entoza, measures of prevention for the greater part of - - -                                                                                                                                                                                       | 336  | — sanguinis hominis diurna and filaria sanguinis hominis perstans, The geographical distribution, Pathological relations, and life in connexion with preventive medicine. (P. Manson, M.D.) - - - | 79   |
|                                                                                                                                                                                                                                                    |      | — sanguinis hominis nocturna. (Fig.) - - -                                                                                                                                                        | 80   |

|                                                                                                            | Page |
|------------------------------------------------------------------------------------------------------------|------|
| <i>Filaria sanguinis hominis</i> perstans.<br>(Fig.) - - - -                                               | 81   |
| Finkelnburg (Prof.), The influence<br>of soil on the spread of tuber-<br>culous disease - - -              | 171  |
| Florence, hygienic comparison of,<br>with other European cities -                                          | 190  |
| —, general death-rate of, com-<br>pared with that of other European<br>cities - - - -                      | 191  |
| Fowke (Francis), remarks in dis-<br>cussion on the improved hygienic<br>condition of maternity hospitals - | 231  |

## G.

|                                                                                                                                                                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Galton (Sir Douglas), speech at<br>opening meeting - -                                                                                                                                                                                                              | 9   |
| Geographical distribution, patho-<br>logical relations, and life history<br>of <i>filaria sanguinis hominis</i><br><i>diurna</i> , and of <i>filaria sanguinis</i><br><i>hominis perstans</i> in connexion<br>with preventive medicine.<br>(Patrick Manson, M.D.) - | 79  |
| Gibert (Dr.), De la diphtérie au<br>Hâvre, 1880-89) - - -                                                                                                                                                                                                           | 119 |
| —, De la phthisie pulmonaire<br>au Hâvre (1880-89) - -                                                                                                                                                                                                              | 178 |
| Gore Farm Hospital, near Darenth,<br>plan of - - - -                                                                                                                                                                                                                | 279 |
| Greene (Pasha), The influence of<br>the Nile on morality in Egypt -                                                                                                                                                                                                 | 241 |
| Grieve (Robert), remarks in dis-<br>cussion on quarantine and sanita-<br>tion in relation to cholera -                                                                                                                                                              | 76  |
| Guisch, mortality and natality of -                                                                                                                                                                                                                                 | 243 |
| Günther (Dr.), remarks in discus-<br>sion on diphtheria - -                                                                                                                                                                                                         | 161 |

## H.

|                                                                                                                         |     |
|-------------------------------------------------------------------------------------------------------------------------|-----|
| Hauser (Dr.), remarks in discussion<br>on the Metropolitan Infectious<br>Hospital and Ambulance Or-<br>ganisation - - - | 316 |
| Hâvre, De la diphtérie au, 1880-<br>1889. (Dr. Gibert) - - -                                                            | 119 |
| —, De la phthisie pulmonaire au,<br>(1880-89). (Dr. Gibert) -                                                           | 178 |
| Helsingfors, precautions taken at<br>the maternity hospital at - -                                                      | 223 |
| "Helvetia," outbreak of cholera on<br>the steamship - - -                                                               | 46  |
| Hewitt (Charles N., M.D.), Diph-<br>theria in Minnesota - -                                                             | 107 |

|                                                                                                                                                                                                                             |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Hewitt, remarks in discussion on<br>methods for preventing the spread<br>of epidemic disease - - -                                                                                                                          | 60  |
| Hewitt (Graily, M.D.), remarks in<br>discussion on the improved<br>hygienic condition of maternity<br>hospitals - - -                                                                                                       | 231 |
| Hospital and ambulance organisa-<br>tion of the Metropolitan Asylums<br>Board for the removal and<br>isolation of cases of infectious<br>disease. (Dep. Surg.-Gen. Bos-<br>tock and Sir Vincent K. Barring-<br>ton) - - - - | 260 |
| Hospital ship "Castalia," plan of -                                                                                                                                                                                         | 277 |

## I.

|                                                                                                                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Importance of more actively en-<br>forcing the ventilation of public<br>and other buildings, On the, sug-<br>gesting a standard of impurity<br>of air as a basis of prosecutions.<br>(J. P. Williams-Freeman, M.D.) | 393 |
| Improved hygienic condition of<br>maternity hospitals, On the. (W.<br>O. Priestley, M.D.) - - -                                                                                                                     | 218 |
| India, measures adopted during the<br>last 30 years for the improve-<br>ment of sanitation in - - -                                                                                                                 | 34  |
| Indian cholera and maritime<br>quarantine - - -                                                                                                                                                                     | 69  |
| India, The prevention of fever in.<br>(Sir William Moore) - - -                                                                                                                                                     | 323 |
| Infectious diseases; Metropolitan<br>Asylums Board: Return of<br>notifications from October 1889<br>to May 1891 - - -                                                                                               | 265 |
| Influence of the Nile on mortality<br>in Egypt, The. (Greene Pasha)-                                                                                                                                                | 241 |
| Influence of Soil on the spread<br>of tuberculous diseases, The.<br>(Prof. Finkeluburg) - - -                                                                                                                       | 171 |
| Influenza, measures to be taken to<br>prevent the spread of - - -                                                                                                                                                   | 240 |
| —, On the prevention of the<br>spread of epidemic. (Richard<br>Sisley, M.D.) - - -                                                                                                                                  | 236 |
| —, spread of epidemic in Eng-<br>land, Scotland, and Wales -                                                                                                                                                        | 238 |
| Inspection, medical, as a means of<br>checking the spread of epidemic<br>disease - - - -                                                                                                                            | 41  |
| —, origin of medical, in England                                                                                                                                                                                    | 50  |
| Ireland, spread of influenza<br>epidemic in - - - -                                                                                                                                                                 | 237 |



| J.                                                                                                                                                                              |     | Page |                                                                                                                                                                                                                                               | Page |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Janssens (Dr.), remarks in discussion on diphtheria - -                                                                                                                         |     | 162  | Manson (Patrick, M.D.), The geographical distribution, pathological relations, and life history of <i>filaria sanguinis hominis</i> <i>dimna</i> , and of <i>filaria sanguinis hominis perstans</i> , in connexion with preventive medicine - | 79   |
| K.                                                                                                                                                                              |     |      | Mansourah, state of Nile at - -                                                                                                                                                                                                               | 243  |
| Kerr (Norman, M.D.), remarks in discussion on alcoholism in relation to public health - -                                                                                       | 212 |      | Maritime quarantine and Indian cholera - - - -                                                                                                                                                                                                | 69   |
| Kinkead (Prof.), remarks in discussion on alcoholism in relation to public health - -                                                                                           | 214 |      | —, quarantine and sanitation in relation to cholera. (W. J. Simpson, M.D.) - - -                                                                                                                                                              | 61   |
| Körösi (Joseph), remarks in reply to the address by the Prince of Wales - - - -                                                                                                 | 17  |      | Massachusetts, cities and towns of, arranged in the order of their death-rates from diphtheria and croup - - - -                                                                                                                              | 140  |
| L.                                                                                                                                                                              |     |      | —, classification of cities and towns in the State of - -                                                                                                                                                                                     | 129  |
| Lawson (Inspector-General), remarks in discussion on malaria and enteric fever - -                                                                                              | 259 |      | —, counties of, arranged according to their death-rates from diphtheria and croup (1871-88)                                                                                                                                                   | 139  |
| —, Notes on the transmission of cholera from one country to another - - - -                                                                                                     | 43  |      | —, death-rates from diphtheria and croup per 10,000 of the population in the State of -                                                                                                                                                       | 138  |
| Lazaret de Camaran "Mer Rouge" et le choléra asiatique. (Dr. C. Stékonlis) - - - -                                                                                              | 56  |      | —, general description of the State of - - - -                                                                                                                                                                                                | 124  |
| Leduc (Dr.), remarks in discussion on fever in India - - -                                                                                                                      | 331 |      | —, The distribution of diphtheria in. (S. W. Abbott, M.D.) -                                                                                                                                                                                  | 123  |
| —, remarks in discussion on quarantine and sanitation in relation to cholera - -                                                                                                | 72  |      | —, vital statistics of the State of                                                                                                                                                                                                           | 126  |
| —, remarks in discussion on the improved hygienic condition of maternity hospitals - -                                                                                          | 231 |      | Maternity hospitals, mortality in maternity hospitals from all causes in various countries of Europe, according to Le Fort -                                                                                                                  | 230  |
| Leprosy, On the alleged connexion of vaccination with. (P. S. Abraham, M.D.) - - -                                                                                              | 384 |      | — —, On the improved condition of. (W. O. Priestley, M.D.)                                                                                                                                                                                    | 218  |
| Local examination of the difference in susceptibility to diphtheria between old and new residents. (Charles E. Paget) - - -                                                     | 152 |      | — —, table showing statistics of Boston Lying-in Hospital -                                                                                                                                                                                   | 227  |
| M.                                                                                                                                                                              |     |      | — —, table showing statistics of Dresden - - - -                                                                                                                                                                                              | 227  |
| Maidstone, diphtheria in relation to height and fluctuation of subsoil water at. (Diagram) -                                                                                    | 149 |      | — —, table showing statistics of Imperial Lying-in Hospital, Vienna - - - -                                                                                                                                                                   | 226  |
| Malaria and enteric fever (including the so-called typhomalarial and black-water fevers), and on the possible antagonism between malaria and phthisis. (R. W. Felkin, M.D.) - - | 248 |      | — —, table showing statistics of New York Maternity Hospital                                                                                                                                                                                  | 227  |
|                                                                                                                                                                                 |     |      | — —, table showing statistics of Paris Maternité - - -                                                                                                                                                                                        | 227  |
|                                                                                                                                                                                 |     |      | — —, table showing statistics of Russian maternities - -                                                                                                                                                                                      | 226  |
|                                                                                                                                                                                 |     |      | McGann (Brigade-Surgeon), remarks in discussion on quarantine and sanitation in relation to cholera - - - -                                                                                                                                   | 73   |
|                                                                                                                                                                                 |     |      | Mensles, progress of mortality from, in Florence, from 1866 to 1890. (Dr. Leonida Castelli) - -                                                                                                                                               | 182  |





## P.

|                                                                                                                                                                                                       | Page  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Paget (Charles E.), A local examination of the difference in susceptibility to diphtheria between old and new residents - - -                                                                         | 152   |
| Paget (Sir James), vote of thanks to the Prince of Wales for presiding - - -                                                                                                                          | 20    |
| Parasites entozoal, personal rules for prophylaxis of - - -                                                                                                                                           | 336-7 |
| "Peruvian," outbreak of cholera on the steamship - - -                                                                                                                                                | 46    |
| Phillips (John G.), The effects of alcoholism on public health -                                                                                                                                      | 210   |
| Phthisie, distribution géographique de la, et l'influence de la densité -                                                                                                                             | 178   |
| —, pulmonaire au Havre (1880-89), De la (Dr. Gibert) -                                                                                                                                                | 178   |
| —, influence de la contagion -                                                                                                                                                                        | 181   |
| —, influence de l'alcoolisme et de l'age - - -                                                                                                                                                        | 180   |
| —, influence de la misère -                                                                                                                                                                           | 181   |
| —, influence du climat maritime -                                                                                                                                                                     | 181   |
| Phthisis, Observations on malaria and enteric fever (including the so-called typho-malarial and blackwater fevers), and on the possible antagonism between the malaria and (R. W. Felkin, M.D.) - - - | 248   |
| Pistor (Dr. M.), Ueber desinfektion vom praktischen Standpunkte -                                                                                                                                     | 319   |
| Pool (Surg. Maj.), remarks in discussion on fever in India -                                                                                                                                          | 331   |
| Port Said, source of water-supply at - - -                                                                                                                                                            | 244   |
| Prédilection que montre la diphthérie pour certains cantons -                                                                                                                                         | 100   |
| Prévention de la Cécité professionnelle (Dr. J. C. van Dooremaal) -                                                                                                                                   | 232   |
| Prevention of disease in growing towns (Surg. Gen. Beatson) -                                                                                                                                         | 316   |
| — of fever in India (Sir William Moore) - - -                                                                                                                                                         | 323   |
| — of the spread of epidemic influenza (Richard Sisley) -                                                                                                                                              | 236   |
| Priestley (W. O., M.D.), On the improved hygienic condition of maternity hospitals - - -                                                                                                              | 218   |
| Principal and most efficacious means of preventing the spread of entozoal affections in man, The (Dr. Prospero Sonsino) - - -                                                                         | 332   |

## Page

|                                                                                                                                                                           |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Pringle (Brig. Surg. Robert, M.D.), remarks in discussion on quarantine and sanitation in relation to cholera - - -                                                       | 76  |
| Progress of mortality from tuberculosis, typhoid, diphtheria, smallpox, scarlatina, and measles in Florence during the 25 years from 1866-90 (Dr. Leonida Castelli) - - - | 182 |
| Puerperal fevers, dangers of -                                                                                                                                            | 220 |
| — fever, table showing mortality from, in the Helsingfors Maternity Hospital - - -                                                                                        | 223 |

## Q.

|                                                                                              |     |
|----------------------------------------------------------------------------------------------|-----|
| Quarantine, "Ancient," definition of - - -                                                   | 50  |
| — as a means of checking the spread of epidemic disease -                                    | 38  |
| —, Australasian maritime, its theory and practice (J. Ashburton Thompson, M.D.) - -          | 49  |
| — Board, International -                                                                     | 373 |
| —, greatest evil of - -                                                                      | 42  |
| —, importance of amount of traffic to be dealt with in all questions of practical - -        | 49  |
| —, "Limited" definition of -                                                                 | 50  |
| — measures, the importance of taking into consideration different conditions in adopting - - | 51  |
| — practice in New South Wales -                                                              | 54  |
| —, use of limited, in cases of unknown disease - - -                                         | 53  |

## R.

|                                                                                                                             |     |
|-----------------------------------------------------------------------------------------------------------------------------|-----|
| Ransome (Arthur, M.D.), On the need of special measures for the prevention of consumption -                                 | 164 |
| Relation of alcoholism to public health, and the methods to be adopted for its prevention, The (Sir Dyce Duckworth, M.D.) - | 191 |
| Relationship between the occurrence of diphtheria and the movement of the subsoil water (Matthew A. Adams, F.R.C.S.) -      | 146 |
| Rhabdonema intestinale, dangers of River Ambulance Service, plan of South Wharf, Rotherhithe -                              | 285 |
| Robinson (Dr.), remarks in discussion on alcoholism in relation to public health - - -                                      | 217 |

|                                                                                                                                                                                                                                                            | Page |                                                                                                                                                      | Page |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Rochard (Dr. Jules), remarks in discussion on methods for preventing the spread of epidemic disease - - - -                                                                                                                                                | 54   | Simpson, (W. J., M.D.), remarks in discussion on cholera in Egypt -                                                                                  | 378  |
| Rosetta, mortality and natality compared at - - - -                                                                                                                                                                                                        | 245  | Sisley (Richard, M.D.), On the prevention of the spread of epidemic influenza - - - -                                                                | 236  |
| Roth (Dr. W.), address on behalf of the German Committee for the International Congress of Hygiene - - - -                                                                                                                                                 | 19   | Small-pox epidemic of 1884-5, particulars of - - - -                                                                                                 | 293  |
| Ruyseh (Dr. W. P.), remarks in discussion on quarantine and sanitation in relation to cholera -                                                                                                                                                            | 76   | — — —, mortality from, since the passing of the first Vaccination Act - - - -                                                                        | 30   |
| <b>S.</b>                                                                                                                                                                                                                                                  |      | — — —, progress of mortality from, in Florence, during from 1866-90 (Leonida Castelli) -                                                             | 182  |
|                                                                                                                                                                                                                                                            |      | — — —, table showing annual number of deaths from 1866-70 and 1886-90 in Florence from -                                                             | 185  |
| St. Petersburg, precautions adopted at the Maternity Hospital at -                                                                                                                                                                                         | 225  | Sonsino (Dr.), remarks in discussion on alcoholism in relation to public health - - - -                                                              | 218  |
| Salford, table showing the comparative incidence of diphtheria attacks in each of the four districts of the borough during the years 1883-90 - - - -                                                                                                       | 154  | — — —, remarks in discussion on diphtheria - - - -                                                                                                   | 164  |
| Sandwith (F. M., M.D.), Cholera in Egypt - - - -                                                                                                                                                                                                           | 346  | — — —, remarks in discussion on <i>filaria sanguinis hominis</i> -                                                                                   | 97   |
| Sanitary improvement the best mode of checking the spread of epidemic disease - - - -                                                                                                                                                                      | 42   | — — —, The principal and most efficacious means of preventing the spread of entozoal affections in man - - - -                                       | 332  |
| Scarlatina, progress of mortality from, in Florence, from 1866-90 (Dr. Leonida Castelli) - -                                                                                                                                                               | 182  | Southampton in 1856, outbreak of malignant cholera at - - - -                                                                                        | 44   |
| — — —, table showing annual number of deaths from 1866-70 and 1886-90 in Florence, from -                                                                                                                                                                  | 185  | Squire (J. Edward, M.D.), To what extent can legislation assist in diminishing the prevalence of consumption and other tuberculous diseases? - - - - | 173  |
| Scarlet fever, The disinfection of, by antiseptic inunction (J. Brendon Curgenven) - - - -                                                                                                                                                                 | 378  | Staples (Brig. Surg. F. W.), remarks in discussion on quarantine and sanitation in relation to cholera - - - -                                       | 77   |
| Schrevels (Dr.), Contribution à l'étude des causes de la prédilection que montre la diphtérie pour certains cantons, sa distribution en Belgique - - - -                                                                                                   | 100  | Stékoulis (C.), Le Lazaret de Camaran "Mer Rouge" et le choléra Asiatique - - - -                                                                    | 56   |
| Seaton (Edward C., M.D.), Diphtheria, with special reference to its distribution and to the need for comprehensive and systematic inquiry into the causes of its prevalence in certain countries and parts of countries, with a view to its prevention - - | 98   | — — —, remarks in discussion on cholera in Egypt - - - -                                                                                             | 377  |
| — — —, remarks in discussion on the Metropolitan Infectious Hospitals and Ambulance Organisation - - - -                                                                                                                                                   | 315  | Stokvis (Prof. B. J.), remarks in discussion on quarantine and sanitation in relation to cholera -                                                   | 75   |
| Simpson (W. J., M.D.), Maritime quarantine and sanitation in relation to cholera - - - -                                                                                                                                                                   | 61   | Subsoil water - - - -                                                                                                                                | 374  |
|                                                                                                                                                                                                                                                            |      | — — —, table showing state of, near the Nile banks - - - -                                                                                           | 375  |
|                                                                                                                                                                                                                                                            |      | <b>T.</b>                                                                                                                                            |      |
|                                                                                                                                                                                                                                                            |      | Tantah, source of water-supply at -                                                                                                                  | 244  |
|                                                                                                                                                                                                                                                            |      | Theydon Bois, case of cholera at, particulars of - - - -                                                                                             | 45   |







## VOLUME II.

## BACTERIOLOGY.

## Table of Contents and Index.

## TABLE OF CONTENTS.

|                                                                                                                           | Page |
|---------------------------------------------------------------------------------------------------------------------------|------|
| Presidential Address - - - - -                                                                                            | 9    |
| De l'Étiologie du Paludisme - - - - -                                                                                     | 10   |
| Discussion - - - - -                                                                                                      | 18   |
| Sur les Parasites du globule rouge - - - - -                                                                              | 20   |
| Ueber die Aetiology und Toxicologie der Cholera asiatica - - - - -                                                        | 28   |
| Discussion - - - - -                                                                                                      | 41   |
| The Human Mouth as a Focus of Infection - - - - -                                                                         | 42   |
| Dental Caries - - - - -                                                                                                   | 57   |
| Discussion - - - - -                                                                                                      | 59   |
| The Behaviour of Bacteria in the small Intestine of Man - - - - -                                                         | 60   |
| Ueber eine neue Eiterung erregende Microbienart; <i>Micromyces Hofmanni</i> -                                             | 65   |
| On <i>Streptococcus Pyogenes</i> - - - - -                                                                                | 67   |
| On the question of the Identity of <i>Streptococcus Pyogenes</i> and <i>Streptococcus Erysipelatosus</i> - - - - -        | 68   |
| An exposition of the reasons for considering cancer to be an Infective Disease - - - - -                                  | 70   |
| Recherches sur la nature parasitaire du Cancer - - - - -                                                                  | 81   |
| Psorospermiosis as a possible cause of Epithelial Tumours - - - - -                                                       | 85   |
| Tumeurs à Coccidies de l'intestin grêle du mouton - - - - -                                                               | 94   |
| On Bacterial Necrosis of the Liver - - - - -                                                                              | 95   |
| L'Infection hémorrhagique bactérienne chez l'Homme - - - - -                                                              | 98   |
| The Morphology of Actinomyces - - - - -                                                                                   | 105  |
| Demonstration of some Pathogenic Moulds found in Inflammatory lesions of the Skin, etc. - - - - -                         | 107  |
| De l'Immunité : Immunité acquise et Immunité naturelle - - - - -                                                          | 110  |
| Ueber Immunität, deren natürliches Vorkommen und Künstliche Erzeugung -                                                   | 124  |
| On Immunity - - - - -                                                                                                     | 145  |
| Die künstliche Erzeugung von Immunität gegen croupöse Pneumonie und die Heilung dieser Krankheit - - - - -                | 152  |
| On Wooldridge's method of producing Immunity against Anthrax by the injection of solutions of tissue-fibrinogen - - - - - | 164  |
| On Immunity to <i>Diplococcus pneumoniae</i> - - - - -                                                                    | 172  |
| Les Substances microbicides du Sérum - - - - -                                                                            | 173  |
| Discussion - - - - -                                                                                                      | 175  |

|                                                                                                                                      |   |   |   |   |      |
|--------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|------|
| On the Ætiology of Tuberculosis in all its relations                                                                                 | - | - | - | - | Page |
|                                                                                                                                      |   |   |   |   | 184  |
| *Le Danger supposé de la Consommation du Lait et de la Viande sains en apparence mais provenant d'animaux atteints de la Tuberculose | - | - | - | - | 193  |
| *On the transmission of Tuberculosis from animals to Man by means of Flesh and Milk derived from tuberculous animals                 | - | - | - | - | 197  |
| Sur l'Utilisation des Viandes des Animaux tuberculeux-                                                                               | - | - | - | - | 203  |
| Discussion                                                                                                                           | - | - | - | - | 204  |
| L'emploi de la Tuberculine comme Moyen Préventif et comme Traitement de la Tuberculose                                               | - | - | - | - | 209  |
| Ueber neuere Erfahrungen in der Benhandlung der Tuberculose nach Koch, insbesondere der Lungenschwindsucht                           | - | - | - | - | 211  |
| Discussion                                                                                                                           | - | - | - | - | 220  |
| Pre-tubercular lesions in Phthisis pulmonalis                                                                                        | - | - | - | - | 222  |
| Contribution à l'Étude de la Tuberculose                                                                                             | - | - | - | - | 229  |
| Quelques considérations sur l'Hygiène de la Tuberculose                                                                              | - | - | - | - | 231  |
| Inoculated Tuberculosis in Snakes                                                                                                    | - | - | - | - | 234  |
| Demonstration on a case of Tubercular Leprosy                                                                                        | - | - | - | - | 235  |
| On the presence of Spores of <i>Bacillus Anthracis</i> in the Air                                                                    | - | - | - | - | 238  |
| Ueber Desinfection am lebenden Organismus                                                                                            | - | - | - | - | 239  |
| Discussion                                                                                                                           | - | - | - | - | 253  |
| Ueber Desinfectionsmittel und die Methoden ihre Wirksamkeit zu prüfen                                                                | - | - | - | - | 255  |
| Ueber Kresole als Desinfectionsmittel                                                                                                | - | - | - | - | 263  |
| Discussion                                                                                                                           | - | - | - | - | 271  |
| Rapports du <i>Bacillus coli communis</i> avec le bacille d'Eberth et l'étiologie de la Fièvre typhoïde                              | - | - | - | - | 272  |
| La recherche du Bacille typhique et du <i>Bacillus coli communis</i> dans les Eaux de boisson                                        | - | - | - | - | 278  |
| Ueber eine ausgebreitete Typhus-epidemie in Verbindung mit Trinkwasser                                                               | - | - | - | - | 282  |
| The Hygienic Value of the Bacteriological Examination of Water                                                                       | - | - | - | - | 291  |
| The Bacteriological Examination of Drinking Water, with especial reference to the Dublin Water Supply                                | - | - | - | - | 294  |
| Mittheilungen über Versuche mit dem Dr. Nordtmeyer, Berkefeld'schen Kieselguhrfilter                                                 | - | - | - | - | 301  |
| Ueber die Möglichkeit einer vom Brunnerwasser ausgehenden Hühner-Cholera Epidemie                                                    | - | - | - | - | 306  |
| Some Fermentations excited by Specific Micro-organisms                                                                               | - | - | - | - | 310  |
| The relation of certain Organisms to the Fermentation of Urine                                                                       | - | - | - | - | 314  |
| The influence of Microphytes on Arsenical Wall-papers                                                                                | - | - | - | - | 316  |
| The Bacteriology of Vaccine-Lymph                                                                                                    | - | - | - | - | 319  |
| On the Bacteriology of Vaccine-Lymph                                                                                                 | - | - | - | - | 326  |
| A cheap Incubator and steam Steriliser with improved moist chambers for plate and interlamellar cultivations                         | - | - | - | - | 328  |

## INDEX.

---

\* Originally contributed to Section III.



## INDEX.

| A.                                                                                                                                                                                                                                | Page | B.                                                                                                                                                                               | Page |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Aekerley (Dr. R.), cases of cancer in Devonshire, communicated by - - - -                                                                                                                                                         | 75   | Babes (Prof. V.), L'infection hémorrhagique bactérienne chez l'homme - - - -                                                                                                     | 98   |
| Actinomyces, The morphology of. (Prof. E. M. Crookshank) -                                                                                                                                                                        | 105  | — — —, remarks in discussion on immunity - - -                                                                                                                                   | 178  |
| Adami (J. G., M.B.), remarks in discussion on immunity -                                                                                                                                                                          | 178  | Bacille d'Eberth, Rapports du bacillus coli communis avec le, et l'étiologie de la fièvre typhoïde. (Prof. Arloing) - - -                                                        | 272  |
| Address, presidential. (Sir J. Lister, Bart., F.R.S.) - -                                                                                                                                                                         | 9    | — typhique et du bacillus coli communis dans les eaux de boisson, La recherche du. (Dr. H. Vincent) - - -                                                                        | 278  |
| Aetiology und toxicologie der cholera asiatica. (Prof. F. Hueppe) - - -                                                                                                                                                           | 28   | Bacillus anthracis in the air, On the presence of spores of the. (R. Wurtz., M.D., and Samuel Lodge, M.D.) - - -                                                                 | 238  |
| Alouette, hématozaires de l' (Figure) - - -                                                                                                                                                                                       | 16   | — buccalis muciferens - - -                                                                                                                                                      | 50   |
| Angina Ludovici, causes of -                                                                                                                                                                                                      | 44   | — — — septicus - - -                                                                                                                                                             | 52   |
| Animaux tuberculeux, Sur l'utilisation des viandes des. (Prof. E. Perroncito) - - -                                                                                                                                               | 203  | — coli communis avec le bacille d'Eberth, Rapports du, et l'étiologie de la fièvre typhoïde. (Prof. Arloing) - - -                                                               | 272  |
| Anthax, On Wooldridge's method of producing immunity against, by the injection of solutions of tissue-fibrinogen. (A. E. Wright, M.D.) - - -                                                                                      | 164  | — — — dans les eaux de boisson, La recherche du bacille typhique. (Dr. H. Vincent) -                                                                                             | 278  |
| Arloing (Prof.), Rapports du bacillus coli communis avec le bacille d'Eberth, et l'étiologie de la fièvre typhoïde - -                                                                                                            | 272  | — lepræ, Demonstration on a case of tubercular leprosy to show the different characters presented by the, in the various organs of the same patient. (Sheridan Delépine, M.B.) - | 235  |
| — — —, remarks in discussion on l'utilisation des viandes des animaux tuberculeux - -                                                                                                                                             | 209  | — of sputum septicæmia -                                                                                                                                                         | 51   |
| — — —, remarks in discussion on immunity - - -                                                                                                                                                                                    | 176  | — pneumoniae (pneumobacillus) - - -                                                                                                                                              | 51   |
| Arsenical wall-paper, The influence of microphytes on. (Dr. B. Gosio) - - -                                                                                                                                                       | 316  | Bacteria of mouth cultivable on artificial media, list of - -                                                                                                                    | 45   |
| Auditory meatus (external), Demonstration of some pathogenic moulds found in inflammatory lesions of the, and of the effects of temperature and of pabulum on their growth and vital concurrence. (Sheridan Delépine, M.B.) - - - | 107  | — in the mouth, prophylaxis -                                                                                                                                                    | 53   |
|                                                                                                                                                                                                                                   |      | — in the small intestine of man, The behaviour of. (Allan Macfadyen, M.D.) - - -                                                                                                 | 60   |
|                                                                                                                                                                                                                                   |      | —, the pathogenic mouth -                                                                                                                                                        | 45   |
|                                                                                                                                                                                                                                   |      | Bacterial necrosis of the liver. (J. Hamilton, M.B.) - -                                                                                                                         | 95   |

|                                                                                                                                                          | Page |                                                                                                                                                     | Page |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Bacteriological examination of drinking water, with special reference to the Dublin water-supply. (Edmond J. McWeeney, M.D.) - - -                       | 294  | Cancer, geographical distribution of - - -                                                                                                          | 74   |
| Bacteriology of vaccine lymph, On the. (Prof. E. M. Crookshank) - - -                                                                                    | 326  | —, increase in the prevalence of - - -                                                                                                              | 80   |
| — of vaccine lymph, The. (S. Monckton Copeman, M.D.) - - -                                                                                               | 319  | —, Recherches sur la nature parasitaire du. (Prof. Simon Duplay et Dr. Maurice Cazin) - - -                                                         | 81   |
| Ballance (Charles A., F.R.C.S.) and Shattock (Samuel G., F.R.C.S.), An exposition of the reasons for considering cancer to be an infective disease - - - | 70   | — to be an infective disease, An exposition of the reasons for considering. (Samuel G. Shattock, F.R.C.S., and Charles A. Ballance, F.R.C.S.) - - - | 70   |
| Bang (Prof.), Le danger supposé de la consommation du lait et de la viande sains en apparence mais provenant d'animaux atteints de la tuberculose - - -  | 193  | Caries, Dental. (Henry Sewill, M.R.C.S.) - - -                                                                                                      | 57   |
| Bardaeh (Dr. J.), L'emploi de la tuberculine comme moyen préventif et comme traitement de la tuberculose - - -                                           | 209  | —, predisposing causes of - - -                                                                                                                     | 57   |
| Barlow (Dr.), remarks in discussion on l'utilisation des viandes des animaux tuberculeux - - -                                                           | 208  | Celli (Prof. Angelo), Sur les parasites du globule rouge - - -                                                                                      | 20   |
| Bäumler (Prof.), remarks in discussion on the human mouth as a focus of infection - - -                                                                  | 59   | Cholera asiatica, Ueber die Aetiology und Toxicologie der. Prof. F. Hueppe) - - -                                                                   | 28   |
| Behaviour of bacteria in the small intestine of man. (Allan Macfadyen, M.D.) - - -                                                                       | 60   | Christmas (M. J. de), Les substances microbicides du sérum - - -                                                                                    | 173  |
| Behring (Dr.), Ueber desinfection am lebenden Organismus - - -                                                                                           | 239  | Coccidies (Tumeurs à) de l'intestin grêle du mouton. (Prof. Ed. Nocard) - - -                                                                       | 94   |
| Bruce (Dr.), remarks in discussion on the aetiology and toxicology of cholera asiatica - - -                                                             | 41   | Considérations sur l'hygiène de la tuberculose, Quelques. (Dr. Fejeda) - - -                                                                        | 231  |
| Buchner (Dr. Hans), remarks in discussion on disinfection - - -                                                                                          | 271  | Cook (Surgeon-General), remarks in discussion on the etiology of paludism - - -                                                                     | 19   |
| — —, remarks in discussion on immunity - - -                                                                                                             | 179  | Cooper (Ardaseer V. Cooper), remarks in discussion on the etiology of paludism - - -                                                                | 19   |
| — —, Ueber Immunitaet, deren natürliches Vorkommen und künstliche Erzeugung - - -                                                                        | 124  | Copeman (S. Monckton, M.D.), The bacteriology of vaccine lymph - - -                                                                                | 319  |
| <b>C.</b>                                                                                                                                                |      | "Corps à fuchsine" of Mr. Russell - - -                                                                                                             | 84   |
| Cancer as a parasitic disease, reasons for regarding - - -                                                                                               | 74   | Crookshank (Professor E. M.), On the bacteriology of vaccine lymph - - -                                                                            | 326  |
| —, case related by Mr. Lawrance of Hammersmith - - -                                                                                                     | 75   | — —, On the question of the identity of streptococcus pyogenes and streptococcus erysipelatosus - - -                                               | 68   |
| —, investigations into the distribution of, by Dr. Haviland - - -                                                                                        | 75   | — —, On streptococcus pyogenes - - -                                                                                                                | 67   |
| —, four cases of, in Devonshire, communicated by Dr. R. Ackerley - - -                                                                                   | 75   | — —, remarks in discussion on the etiology of paludism - - -                                                                                        | 18   |
|                                                                                                                                                          |      | — —, The morphology of actinomyces - - -                                                                                                            | 105  |
|                                                                                                                                                          |      | Cunningham's (Dr.), theory of Asiatic cholera, compared with Koch's - - -                                                                           | 29   |



## D.

|                                                                                                                                                                                                                                             | Page |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Danger supposé de la consommation du lait et de la viande sains en apparence mais provenant d'animaux atteints de la tuberculose. (Professor Bang) -                                                                                        | 193  |
| Defensive proteids—"Phylaxin" -                                                                                                                                                                                                             | 151  |
| — — —, "Sozin" -                                                                                                                                                                                                                            | 150  |
| — — —, further sub-divisions of - - -                                                                                                                                                                                                       | 151  |
| Delépine (Sheridan, M.B.), A cheap incubator and steam steriliser, with improved moist chambers for plate cultivations and interlamellar cultivations -                                                                                     | 328  |
| — — —, Demonstration of some pathogenic moulds found in inflammatory lesions of the skin, external auditory meatus and lungs, and of the effects of temperature and of pabulum on their growth and vital concurrence - - -                  | 107  |
| — — —, Demonstration on a case of tubercular leprosy to show the different characters presented by the bacillus lepræ growing in the various organs of the same patient -                                                                   | 235  |
| — — —, Pretubercular lesions in phthisis pulmonalis -                                                                                                                                                                                       | 222  |
| — — —, Psorospormosis as a possible cause of epithelial tumours - - -                                                                                                                                                                       | 85   |
| Demonstration of some pathogenic moulds found in inflammatory lesions of the skin, external auditory meatus, and lungs, and of the effects of temperature and of pabulum on their growth and vital concurrence. (Sheridan Delépine, M.B.) - | 107  |
| — on a case of tubercular leprosy to show the different characters presented by the bacillus lepræ growing in the various organs of the same patient. (Sheridan Delépine, M.B.) -                                                           | 235  |
| Dental caries (Henry Sewill, M.R.C.S.) -                                                                                                                                                                                                    | 57   |
| Desinfection am lebendem Organismus (Dr. Behring) -                                                                                                                                                                                         | 239  |

|                                                                                                                                                | Page |
|------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Desinfectionsmittel und die Methoden ihre Wirksamkeit zu prüfen, Ueber. (Professor Max Grüber) -                                               | 255  |
| Desinfectionsmittel, Ueber Kresole als (Professor F. Hueppe) -                                                                                 | 263  |
| Diphtheria-immune rabbit, antitoxic power of the serum of a -                                                                                  | 147  |
| Diplococcus pneumoniae, On immunity to (Professor Foà) -                                                                                       | 172  |
| Disease, An exposition of the reasons for considering cancer to be an infective (S. G. Shattock, F.R.C.S., and C. A. Ballance, F.R.C.S.) - - - | 70   |
| Diseases of the human body which have been traced to the action of mouth bacteria -                                                            | 44   |
| Drinking-water, The bacteriological examination of, with special reference to the Dublin water-supply. (Edmond J. McWeeney, M.D.) - - -        | 294  |
| Dublin water-supply, The bacteriological examination of drinking water, with special reference to the. (Edmond J. McWeeney, M.D.) - - -        | 294  |
| Duplay (Professor Simon) et Cazin (Dr. Maurice), Recherches sur la nature parasitaire du cancer - - -                                          | 81   |

## E.

|                                                                                                                                                                   |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Ehrlich (Professor) remarks in discussion on immunity -                                                                                                           | 177 |
| — — —, remarks in discussion on tuberculous -                                                                                                                     | 221 |
| — — —, Ueber neuere Erfahrungen in der Behandlung der Tuberculose nach Koch, insbesondere der Lungenschwindsucht -                                                | 211 |
| Emmerich (Professor Rudolf) und Fawitzky (Dr. Alexander), Die künstliche Erzeugung von Immunität gegen croupöse Pneumonie, und die Heilung dieser Krankheit - - - | 152 |
| Emploi de la tuberculine comme moyen préventif et comme traitement de la tuberculose, L'. (Dr. J. Bardach) - - -                                                  | 209 |
| Étiologie du paludisme, De l' (Professor A. Laveran) -                                                                                                            | 10  |

## F.

|                                                                                                                                                                 | Page |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Fawitzky (Dr. Alexander) und Emmerich (Professor Rudolf), Die künstliche Erzeugung von Immunität gegen croupöse Pneumonie, und die Heilung dieser Krankheit - - | 152  |
| Fejeda (Dr.), Quelques considérations sur l'hygiène de la tuberculose - - -                                                                                     | 231  |
| Fermentations excited by specific micro-organisms, Some. (Professor P. F. Frankland, F.R.S.) -                                                                  | 310  |
| Fèvre typhoïde, Rapports du bacillus coli communis avec le bacille d'Eberth, et l'étiologie de la (Professor Arloing) - -                                       | 272  |
| Foa (Professor), On immunity to diplococcus pneumoniae -                                                                                                        | 172  |
| Fodor (Professor), remarks in discussion on immunity - -                                                                                                        | 177  |
| Frankland (Dr. Percy F.), Some fermentations excited by specific micro-organisms - -                                                                            | 310  |
| —— —, The hygienic value of the bacteriological examination of water - - -                                                                                      | 291  |

## G.

|                                                                                            |     |
|--------------------------------------------------------------------------------------------|-----|
| Globule rouge, Sur les parasites du (Professor Angelo Celli) -                             | 20  |
| Gosio (Dr. B.), The influence of microphytes on arsenical wall-paper - - -                 | 316 |
| Gregarinae or psorospermia, conditions fulfilled by, as a source of epithelial tumours - - | 88  |
| Grüber (Professor Max), remarks on disinfection - - -                                      | 271 |
| —— —, remarks on the aetiology and toxicology of cholera Asiatica - - -                    | 41  |
| —— —, Ueber eine neue Eiterung erregende Microbienart: Mieromyces Hofmanni - -             | 65  |
| —— —, Ueber Desinfectionsmittel und die Methoden ihre Wirksamkeit zu prüfen - -            | 255 |

## H.

|                                                                 |    |
|-----------------------------------------------------------------|----|
| Hamilton (Prof. J., M.D.), On bacterial necrosis of the liver - | 95 |
|-----------------------------------------------------------------|----|

## Page

|                                                                                                                                                                     |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Hamilton (Prof. J., M.D.), remarks in discussion on paper Sur l'utilisation des viandes des animaux tuberculeux - - -                                               | 204   |
| Haukin (E. H., M.B.), On immunity - - -                                                                                                                             | 145   |
| Heilwirkung des Gewebssaftes von Kaninehen, welche durch subcutane Injection abgeschwächter Culturen immunisirt wurden. Heilgeimpftes Kaninehen - -                 | 156-9 |
| —— (vollständige) des Gewebssaftes, welcher aus dem, durch intravenöse Injection kleiner Mengen vollvirulenter. Cultur immunisirten Kaninehen, gewonnen wurde - - - | 160   |
| Hime (Dr.), remarks in discussion on paper Sur l'utilisation des viandes des animaux tuberculeux                                                                    | 206   |
| Huehner-Cholera-Epidemie, Ueber die Möglichkeit einer vom Brunnenwasser ausgehenden. (Dr. Arunlf Schoeuwerth) -                                                     | 306   |
| Hueppe (Prof. F.), remarks on the etiology of paludism - -                                                                                                          | 20    |
| —— —, remarks in discussion on immunity - - -                                                                                                                       | 175   |
| —— —, remarks in discussion on tuberculosis - - -                                                                                                                   | 220   |
| —— —, Ueber die Aetologie und Toxicologie der Cholera asiatica                                                                                                      | 28    |
| —— —, Ueber Kresole als Desinfectionsmittel - - -                                                                                                                   | 263   |
| Hygienic value of the bacteriological examination of water, The. (Prof. Percy F. Frankland)                                                                         | 291   |

## I.

|                                                                                                                                                              |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Immunisirung - - -                                                                                                                                           | 159 |
| Immunität gegen croupöse Pneumonie, die künstliche Erzeugung von, und die Heilung dieser Krankheit. (Prof. Rudolf Emmerich und Dr. Alexander Fawitzky) - - - | 152 |
| Immunität gegen croupöse Pneumonie durch subcutane Injection abgeschwächter Culturen von Diplococci (tables) - -                                             | 153 |
| —— (Ueber) deren natürliches Vorkommen und künstliche Erzeugung. (Dr. Hans Buehner)                                                                          | 124 |

|                                                                                                                                                   | Page |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Immuité : immunité acquise et immunité naturelle, De P. (Dr. Roux) - - -                                                                          | 110  |
| Immunity. (E. H. Hankin, M.B.)                                                                                                                    | 145  |
| — against anthrax by the injection of solutions of tissue-fibrinogen, On Wooldridge's method of producing. (A. E. Wright, M.D.) - -               | 164  |
| —, new theory of - -                                                                                                                              | 147  |
| — to diplococcus pneumoniae, On. (Prof. Foà) - -                                                                                                  | 172  |
| Incubator and steam steriliser, with improved moist chambers for plate cultivations and interlamellar cultivations. (Sheridan Delépine, M.B.) - - | 328  |
| Infection hémorrhagique bacillaire, spécifique - - -                                                                                              | 100  |
| — hémorrhagique bacillaire, spécifique, formes avec prédominance des symptômes septiques -                                                        | 101  |
| — hémorrhagique bacillaire, spécifique, formes hémorrhagiques des différentes maladies aux manifestations hémorrhagiques - - -                    | 102  |
| — hémorrhagique bacillaire, spécifique, prédominance des phénomènes hémorrhagiques -                                                              | 100  |
| — hémorrhagique bactérienne chez l'homme, L'. (Prof. V. Babes) - - -                                                                              | 98   |
| —, The human mouth as a focus of. (Dr. W. D. Miller) -                                                                                            | 42   |
| Infections following operations in the mouth - - -                                                                                                | 45   |
| — resulting from wounds with dental instruments - -                                                                                               | 45   |
| Influence of microphytes on arsenical wall-paper, The. (Dr. B. Gosio) - - -                                                                       | 316  |
| Inoculated tuberculosis in snakes. (Walter K. Sibley, M.D.) -                                                                                     | 234  |
| Interlamellar cultivations, incubator and steam steriliser, with improved moist chambers for. (Sheridan Delépine, M.B.) -                         | 328  |
| Intestine of man, The behaviour of bacteria in the small. (Allan Macfadyen, M.D.) - -                                                             | 60   |
| Introductory paper on the ætiology of tuberculosis in all its relations. (Prof. J. Burdon Sanderson) -                                            | 184  |

## K.

|                                                                                                                                                               | Page |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Kitasato (Dr.), remarks in discussion on immunity - -                                                                                                         | 177  |
| Koch'schen kommbacillen - -                                                                                                                                   | 29   |
| Kommabacillen (Koch'schen) -                                                                                                                                  | 28   |
| Kresole als Desinfektionsmittel, Ueber. (Prof. F. Hueppe) -                                                                                                   | 263  |
| Künstliche Erzeugung von Immunität gegen croupöse Pneumonie, und die Heilung dieser Krankheit, Die. (Prof. Rudolph Emmerich und Dr. Alexander Fawitzky) - - - | 152  |

## L.

|                                                                                                                                                                                                            |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Laveran (Prof. A.), De l'Étiologie du paludisme - - -                                                                                                                                                      | 10  |
| — —, remarks in reply -                                                                                                                                                                                    | 20  |
| Leprosy (tubercular), showing the different characters presented by the bacillus lepræ growing in the various organs of the same patient, Demonstration on a case of. (Sheridan Delépine, M.B.) -          | 235 |
| Lister (Sir Joseph, Bart., F.R.S., LL.D.), Presidential address -                                                                                                                                          | 9   |
| Liver, On bacterial necrosis of the. (J. Hamilton, M.D.) - -                                                                                                                                               |     |
| Lodge (Samuel, M.D.) and Wurtz (R., M.D.), On the presence of spores of the bacillus anthracis in the air - - -                                                                                            | 238 |
| Lungenschwindsucht, neber neuere Erfahrungen in der Behandlung der Tuberkulose nach Koch, insbesondere der. (Prof. Ehrlich) - - -                                                                          | 211 |
| Lungs, Demonstration of some pathogenic moulds found in inflammatory lesions of the, and of the effects of temperature and of pabulum on their growth and vital concurrence. (Sheridan Delépine, M.D.) - - | 107 |

## M.

|                                                                                          |    |
|------------------------------------------------------------------------------------------|----|
| Macfadyen (Allan, M.D.), The behaviour of bacteria in the small intestine of man - -     | 60 |
| McFadyean (Prof.) and Woodhead (G. Sims, M.D.), On the transmission of tuberculosis from |    |



|                                                                                                                                                   | Page |                                                                                                                                                                                         | Page |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| animals to man by means of<br>flesh and milk derived from<br>tuberculous animals - - -                                                            | 197  | <b>O.</b>                                                                                                                                                                               |      |
| McWeeney (Edmond J., M.D.),<br>The bacteriological examination<br>of drinking water with special<br>reference to the Dublin water<br>supply - - - | 294  | Organismus, Ueber Desinfection am<br>lebenden. (Dr. Behring) -                                                                                                                          | 239  |
| Metchnikoff (Prof.), La tuberculose<br>— — —, remarks in discussion<br>on immunity - - -                                                          | 229  |                                                                                                                                                                                         |      |
| Micrococci of sputum septicaemia -                                                                                                                | 179  | <b>P.</b>                                                                                                                                                                               |      |
| Micro-organisms, Some fermenta-<br>tions excited by specific. (Prof.<br>P. F. Frankland) - - -                                                    | 47   | Paludisme, corps en croissant -                                                                                                                                                         | 12   |
| Mierophytes on arsenical wall-<br>paper, The influence of. (Dr. B.<br>Gosio) - - -                                                                | 310  | —, corps segmentés ou en<br>rosace - - -                                                                                                                                                | 12   |
| Miller (W. D., M.D.), The human<br>mouth as a focus of infection -                                                                                | 42   | —, corps sphériques - - -                                                                                                                                                               | 12   |
| Mittheilungen ueber Versuche mit<br>dem Dr. Nordtmeyer-Berkefeld'-<br>sehen Kieselguhr-filter. (Dr.<br>Prochnik) - - -                            | 301  | —, De l'étiologie du. (Prof.<br>A. Laveran) - - -                                                                                                                                       | 10   |
| Morphology of actinomyces, The.<br>(Prof. E. M. Crookshank) -                                                                                     | 105  | —, flagella - - -                                                                                                                                                                       | 12   |
| Mouth bacteria, the pathogenic -                                                                                                                  | 45   | —, hématozaires du (Figure) -                                                                                                                                                           | 11   |
| —, infections following opera-<br>tions in the - - -                                                                                              | 45   | —, leucocytes mélanifères -                                                                                                                                                             | 12   |
| —, (The human), as a focus of<br>infection. (W. D. Miller, M.D.)                                                                                  | 42   | Papers (originally contributed to<br>Section II.) transferred to<br>Vol. III., list of - - -                                                                                            | 290  |
|                                                                                                                                                   |      | Parasites du globule rouge, Sur les.<br>(Prof. Angelo Celli) - - -                                                                                                                      | 20   |
| <b>N.</b>                                                                                                                                         |      | —, transmissibilité des, au moyen<br>des inoculations du sang qui en<br>contient - - -                                                                                                  | 25   |
| Nocard (Prof.), remarks in dis-<br>cussion on paper sur l'utilisation<br>des viandes des animaux tuber-<br>culeux - - -                           | 205  | Pathogenic and non-pathogenic<br>moulds at various temperature,<br>vital concurrence of - - -                                                                                           | 109  |
| — — —, Tumeurs à coccidies de<br>l'intestin grêle du mouton -                                                                                     | 94   | — mouth bacteria - - -                                                                                                                                                                  | 45   |
| Nordtmeyer-Berkefeld'sehen Kie-<br>selguhr-filter, Mittheilungen<br>ueber Versuche mit dem Dr.<br>(Dr. Prochnik) - - -                            | 301  | — organisms, method of exa-<br>mining saliva for - - -                                                                                                                                  | 46   |
| North (W.), remarks in discussion<br>on the etiology of paludism -                                                                                | 19   | Perroncito (Prof. E.), remarks in<br>reply - - -                                                                                                                                        | 208  |
| Necrosis of the liver, On bacterial.<br>(J. Hamilton, M.D.) - - -                                                                                 | 95   | — — —, Sur l'utilisation des<br>viandes des animaux tuberculeux                                                                                                                         | 203  |
| —, summary of facts concerning<br>bacterial - - -                                                                                                 | 97   | Phthisis and general tuberculous,<br>differences between the pulmo-<br>nary lesions observed in -                                                                                       | 222  |
| Nutrient media, effects of, on<br><i>Aspergillus fumigatus</i> , <i>A. niger</i> ,<br><i>Oidium</i> - - -                                         | 108  | — pulmonalis, Pretubercular<br>lesions in. (Sheridan Delépine,<br>M.B.) - - -                                                                                                           | 222  |
|                                                                                                                                                   |      | Plate cultivations, incubator and<br>steam steriliser, with improved<br>moist chambers for. (Sheridan<br>Delépine, M.B.) - - -                                                          | 328  |
|                                                                                                                                                   |      | Pneumonie, die künstliche Erzen-<br>gung von Immunität gegen<br>croupöse Pneumonie, und die<br>Heilung dieser Krankheit. (Prof.<br>Rudolf Emmerich und Dr.<br>Alexander Favitzky) - - - | 152  |
|                                                                                                                                                   |      | Ponfick (Prof.), remarks in dis-<br>cussion on tuberculosis - - -                                                                                                                       | 221  |
|                                                                                                                                                   |      | Presidential address. (Sir J. Lister,<br>Bart, F.R.S.) - - -                                                                                                                            | 9    |
|                                                                                                                                                   |      | Pretubercular lesions in phthisis<br>pulmonalis. (S. Delépine, M.B.)                                                                                                                    | 222  |



|                                                                                                                   | Page |
|-------------------------------------------------------------------------------------------------------------------|------|
| Presence of spores of the bacillus anthracis in the air, On the. (R. Wurtz, M.D., and Samuel Lodge, M.D.) - - - - | 238  |
| Prochnik (Dr.), Mittheilungen ueber Versuche mit dem Dr. Nordtmeyer - Berkefeld'schen Kieselguhr-filter - - -     | 301  |
| Proteids, two classes of defensive -                                                                              | 150  |
| Psorospermia in a number of tumours observed in man, result of a search for - - -                                 | 90   |
| — or gregarinæ, conditions fulfilled by, as a cause of epithelial tumours - - -                                   | 88   |
| —, papillomatous growth of the walls of psorospermic nodules in rabbit's liver (× about 600), plate showing - - - | 89   |
| Psorospermosis as a possible cause of epithelial tumours. (Sheridan Delépine, M.B.) - - -                         | 85   |
| —, effects produced by, in the liver of the rabbit - - -                                                          | 89   |
| Psorosperms, explanation of figure showing - - -                                                                  | 87   |
| —, figure showing - - -                                                                                           | 86   |

## R.

|                                                                                                                          |     |
|--------------------------------------------------------------------------------------------------------------------------|-----|
| Rapports du bacillus coli communis avec le bacille d'Eberth, et l'étiologie de la fièvre typhoïde. (Prof. Arloing) - - - | 272 |
| Recherche du bacille typhique et du bacillus coli communis dans les eaux de boisson, La. (Dr. H. Vincent) - - -          | 278 |
| Recherches sur la nature parasitaire du cancer. (Prof. Simon Duplay et Dr. Maurice Cazin) - - -                          | 81  |
| Relation of certain organisms to the fermentation of urine, The. (Samuel G. Shattock, F.R.C.S.) -                        | 314 |
| Roux (Dr.), De l'immunité: immunité acquise et immunité naturelle - - -                                                  | 110 |
| — —, remarks in discussion on disinfection in the living organism - - -                                                  | 253 |

## S.

|                                                                                                        |     |
|--------------------------------------------------------------------------------------------------------|-----|
| Sanderson (Prof. J. Burdon), Introductory paper on the ætiology of tuberculosis in all its relations - | 184 |
|--------------------------------------------------------------------------------------------------------|-----|

i p. 2620.

|                                                                                                                                                                                                             |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Sérum, Les substances microbicides du. (M. J. de Christmas) -                                                                                                                                               | 173 |
| Sewill (Henry), Dental caries -                                                                                                                                                                             | 5   |
| Schoenwerth (Dr. Arnulf), Ueber die Moeglichkeit einer von Brunnenwasser ausgehenden Huehner-Cholera-Epidemie - - -                                                                                         | 306 |
| Shattock (Samuel G., F.R.C.S.), Ballance (Charles A., F.R.C.S.), An exposition of the reasons for considering cancer to be an infective disease - - -                                                       | 70  |
| — —, The relation of certain organisms to the fermentation of urine - - -                                                                                                                                   | 314 |
| Sibley (Walter K., M.D.), Inoculated tuberculosis in snakes - - -                                                                                                                                           | 234 |
| Skin, Demonstration of some pathogenic moulds found in inflammatory lesions of the, and of the effects of temperature and of pabulum on their growth and vital concurrence. (Sheridan Delépine, M.B.) - - - | 107 |
| Snakes, Inoculated tuberculosis in. (Walter K. Sibley, M.D.) -                                                                                                                                              | 234 |
| Sputum septicæmia, experiments relating to the question of immunity to - - -                                                                                                                                | 53  |
| — —, loss of virulence of the sputum cocci - - -                                                                                                                                                            | 52  |
| Steam steriliser, with improved moist chambers, for plate cultivations and interlamellar cultivations, A cheap incubator and. (Sheridan Delépine, M.B.) -                                                   | 328 |
| Streptococcus erysipelatosus, On the question of the identity of streptococcus pyogenes and. (Prof. E. M. Crookshank) -                                                                                     | 68  |
| — pyogenes, On. (Prof. E. M. Crookshank) - - -                                                                                                                                                              | 68  |
| — — and S. erysipelatosus, On the question of the identity of. (Prof. E. M. Crookshank) -                                                                                                                   | 68  |
| Substances microbicides du Sérum, Les. (M. J. de Christmas) -                                                                                                                                               | 173 |

## T.

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| Teeth, decay of - - -                                              | 43  |
| Temperature, effects of in cultivation of some pathogenic moulds - | 109 |
| Tetanus and tubercle, geographical distribution of - - -           | 74  |

|                                                                                                                                                                                              | Page |                                                                                                                                                                                             | Page |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Tissue-fibrinogen, action of -                                                                                                                                                               | 168  | transmission of. (Prof. McFady-<br>yeau and G. Sims Woodhead,<br>M.D.) -                                                                                                                    | 197  |
| — —, character of the ash<br>yielded by - - -                                                                                                                                                | 168  | Tubercenlose in snakes, Inoculated.<br>(Walter K. Sibley, M.D.) -                                                                                                                           | 234  |
| — —, effect of boiling solution<br>of - - -                                                                                                                                                  | 167  | —, Introductory paper on the<br>aetiology of, in all its relations.<br>(Prof. J. Burdon Sanderson) -                                                                                        | 184  |
| — —, effect of artificial peptic<br>digestion on - - -                                                                                                                                       | 167  | —, lesions not essentially tuber-<br>cular from the first, complicated<br>with, after a time - -                                                                                            | 225  |
| — —, from the extracts by<br>acetic acid, precipitation of -                                                                                                                                 | 166  | —, primary pulmonary, com-<br>pared with ordinary phthisis -                                                                                                                                | 224  |
| — —, from the organs, extrae-<br>ction of - - -                                                                                                                                              | 166  | Tuberculous animals, transmission<br>of tuberculosis from animals to<br>man, by means of flesh and milk<br>derived from, On the. (Prof.<br>McFadyean and G. Sims Wood-<br>head, M.D.) - - - | 197  |
| — —, in producing immunity,<br>action of - - -                                                                                                                                               | 169  | — disease, proportion contri-<br>buted by, to the total of deaths<br>from all causes - - -                                                                                                  | 188  |
| — — solution, characters of -                                                                                                                                                                | 165  | — meat, estimation of dangers<br>attendant on the consumption of                                                                                                                            | 191  |
| — — —, evidence as to the<br>nature of - - -                                                                                                                                                 | 166  | Tuberkulin, Heilwirkung des -                                                                                                                                                               | 218  |
| — — —, method of pre-<br>paring - - -                                                                                                                                                        | 164  | Tuberkulin-wirkung, theorie der -                                                                                                                                                           | 211  |
| — — —, On Wooldridge's method<br>of producing immunity against<br>anthrax by the injection of solu-<br>tions of. (A. E. Wright, M.D.)                                                        | 164  | Tuberknlose nach Koch, Ueber<br>neuere Erfahrungen in der Be-<br>handlung der. (Prof. Ehrlich) -                                                                                            | 211  |
| Transmission of tuberculosis from<br>animals to man, by means of flesh<br>and milk derived from tuber-<br>culous animals, On the. (Prof.<br>McFadyean and G. Sims Wood-<br>head, M.D.) - - - | 197  | Tumors, conditions which a parasite<br>must fulfil to be supposed a<br>possible cause of malignant<br>epithelial - - -                                                                      | 85   |
| Trinkwasser, Ueber eine ausgebrei-<br>tete Typhusepidemie in Verbin-<br>dung mit. (Prof. Josef v. Fodor)                                                                                     | 282  | Tumeurs à coecidies de l'intestin<br>grêle du mouton. (Prof. Ed.<br>Noeard) - - -                                                                                                           | 94   |
| Tuberculeux comme moyen pré-<br>ventif et comme traitement de la<br>tubercenlose, L'emploi de la. (Dr.<br>J. Bardach) - - -                                                                  | 209  | Tumours, Psorospermiosis as a pos-<br>sible cause of epithelial. (Sheri-<br>dan Delépine, M.B.) - -                                                                                         | 85   |
| Tubercenlose, Contribution à l'étude<br>de la. (Prof. Metchnikoff) -                                                                                                                         | 229  | Typhusepidemie in Verbindung mit<br>Trinkwasser, Ueber eine ausge-<br>breitete. (Prof. Josef v. Fodor)                                                                                      | 282  |
| — —, Le danger supposé de la con-<br>sommation du lait et de la viande<br>sains en apparence mais prove-<br>nant d'animaux atteints de la.<br>(Prof. Bang) - - -                             | 193  |                                                                                                                                                                                             |      |
| — —, L'emploi de la tuberculine<br>comme moyen préventif et comme<br>traitement de la. (Dr. J. Bar-<br>dach) - - -                                                                           | 209  |                                                                                                                                                                                             |      |
| — —, Quelques considérations sur<br>l'hygiène de la. (Dr. Fejeda) -                                                                                                                          | 231  |                                                                                                                                                                                             |      |
| — —, differences between the pul-<br>monary lesions observed in<br>phthisis and in general - -                                                                                               | 222  |                                                                                                                                                                                             |      |
| — — from animals to man, by<br>means of flesh and milk derived<br>from tuberculous animals, On the                                                                                           |      |                                                                                                                                                                                             |      |

## U.

|                                                                                                                                      |     |
|--------------------------------------------------------------------------------------------------------------------------------------|-----|
| Ueber eine ausgebreitete Typhus-<br>epidemie in Verbindung mit<br>Trinkwasser. (Prof. Josef v.<br>Fodor) - - -                       | 282 |
| — — eine neue Eiterung erregende<br>Microbienart: Micromyces Hof-<br>manni. (Prof. Max Grüber) -                                     | 65  |
| — — neuere Erfahrungen in der<br>Behandlung der Tuberknlosenach<br>Koch, insbesondere der Lungen-<br>schwindsucht. (Prof. Ehrlich) - | 211 |

|                                                                                                 |      |
|-------------------------------------------------------------------------------------------------|------|
|                                                                                                 | Page |
| Urine, The relation of certain organisms to the fermentation of. (Samuel G. Shattock, F.R.C.S.) | 314  |
| Utilisation des viandes des animaux tuberculeux, Sur l'. (Prof. E. Perroncito) - - -            | 203  |

## V.

|                                                                                                                |     |
|----------------------------------------------------------------------------------------------------------------|-----|
| Vaccine lymph, On the bacteriology of. (Prof. E. M. Crookshank) -                                              | 326 |
| — — —, The bacteriology of. (S. Monckton Copeman, M.D.) -                                                      | 319 |
| Vincent (Dr. H.), La recherche du bacille typhique et du bacillus coli communis dans les eaux de boisson - - - | 278 |
| v. Fodor (Prof. Josef) Ueber eine ausgebreitete Typhusepidemie in Verbindung mit Trinkwasser -                 | 282 |

## W.

|                                                                                                                                                                        |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|                                                                                                                                                                        | Page |
| Water, The hygienic value of the bacteriological examination of. (Prof. Percy F. Frankland) -                                                                          | 291  |
| Woodhead (G. Sims, M.D.), and Prof. McFadyean On the transmission of tuberculosis from animals to man, by means of flesh and milk derived from tuberculous animals - - | 197  |
| Wooldridge's method of producing immunity against anthrax by the injection of solutions of tissue-fibrinogen, On. (A. E. Wright, M.D.) - - -                           | 164  |
| Wright (A. E., M.D.), On Wooldridge's method of producing immunity against anthrax by the injection of solutions of tissue-fibrinogen - - -                            | 164  |
| Wurtz (R., M.D.), and Lodge Samuel, M.D.), On the presence of spores of the bacillus anthracis in the air - - -                                                        | 238  |





## VOLUME III.

THE RELATIONS OF THE DISEASES OF  
ANIMALS TO THOSE OF MAN.

## Table of Contents and Index.

## TABLE OF CONTENTS.

|                                                                                                                                                                              | Page |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Presidential Address - - - - -                                                                                                                                               | 7    |
| Prévention de la Rage après Morsure.--Résultats obtenus à l'Institut Pasteur<br>au moyen des inoculations antirabiques - - - - -                                             | 8    |
| The Propagation and Prevention of Rabies - - - - -                                                                                                                           | 16   |
| *Études sur la Rage et sur la Vaccination Antirabique - - - - -                                                                                                              | 22   |
| *Ueber die praktischen Erfolge der antirabischen Schutzimpfungen in<br>Budapest, während des ersten, vom 15 April 1890—14 April 1891, sich<br>erstreckenden Jahres - - - - - | 30   |
| *Résultats statistiques de l'Institut Antirabique d'Odessa - - - - -                                                                                                         | 35   |
| *Sur le Traitement Antirabique de Pasteur - - - - -                                                                                                                          | 42   |
| *Les Résultats des Vaccinations Antirabiques à St. Pétersbourg depuis le<br>1-13 Juillet 1886 au 1-13 Janvier 1891 - - - - -                                                 | 46   |
| *Résultats statistiques de l'Institut Antirabique de Tiflis - - - - -                                                                                                        | 47   |
| *Les Résultats des Vaccinations Antirabiques obtenus à Varsovie - - - - -                                                                                                    | 51   |
| Discussion - - - - -                                                                                                                                                         | 53   |
| Trichinosis in the Netherlands - - - - -                                                                                                                                     | 56   |
| Les Parasites transmissibles des Animaux à l'Homme, envisagés spécialement<br>au point de vue de la Prophylaxie - - - - -                                                    | 57   |
| Sur les Végétaux Parasites (non microbiens) transmissibles des Animaux à<br>l'Homme et réciproquement - - - - -                                                              | 88   |
| Discussion - - - - -                                                                                                                                                         | 100  |
| On Meat Infections—Food Poisoning - - - - -                                                                                                                                  | 102  |
| The Infection of Meat and Milk - - - - -                                                                                                                                     | 118  |
| Discussion - - - - -                                                                                                                                                         | 127  |
| Infectious Udder Diseases of the Cow in relation to Epidemic Diseases in the<br>Human Subject - - - - -                                                                      | 130  |
| Discussion - - - - -                                                                                                                                                         | 148  |
| Die Regelung der Milchversorgung mit Hinsicht auf übertragbare Krankheiten<br>Discussion - - - - -                                                                           | 155  |
|                                                                                                                                                                              | 166  |
| The Inspection of Meat with reference to the Spread of Disease - - - - -                                                                                                     | 171  |
| The Inspection of Meat with regard to the Prevention of Disease - - - - -                                                                                                    | 177  |
| Discussion - - - - -                                                                                                                                                         | 185  |

\* Originally contributed to SECTION II.

|                                                                                                                      | Page |
|----------------------------------------------------------------------------------------------------------------------|------|
| Maladies Infectieuses des Animaux qui peuvent être transmises à l'Homme et réciproquement - - - - -                  | 189  |
| Actinomycesis - - - - -                                                                                              | 192  |
| Trois Cas d'Actinomycesose chez l'Homme - - - - -                                                                    | 197  |
| Discussion - - - - -                                                                                                 | 199  |
| Sur les Dangers que le Charbon ( <b>Anthrax</b> ) fait courir aux Ouvriers des différents Corps de Métiers - - - - - | 203  |
| Anthrax and its Relations to Workers in various Trades - - - - -                                                     | 211  |
| Discussion - - - - -                                                                                                 | 218  |
| Veterinary Hygiene - - - - -                                                                                         | 221  |
| Discussion - - - - -                                                                                                 | 246  |

## INDEX.



## I N D E X.

| A.                                                                                                 | Page | B.                                                                                                                        | Page |
|----------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------|------|
| Abattoirs, general provision of<br>publie - - - -                                                  | 179  | Babes (Prof. V.), Études sur la<br>rage et sur la vaeecination<br>antirabique - - -                                       | 22   |
| Achorion Quinckeanum, Zopf. (Sy.<br>A. Arloingi) - - -                                             | 88   | Ballard (Edward, M.D.), On meat<br>infections, food poisoning -                                                           | 102  |
| — Schoenleini, Remak - -                                                                           | 89   | Bardach (Dr. J.) Résultats statis-<br>tiques de l'institut antirabique<br>d'Odessa; 18 tableaux - -                       | 35   |
| Actinomyces bovis, Harz - -                                                                        | 92   | Barking, outbreak of diptheria in -                                                                                       | 146  |
| Actinomycese chez l'Homme, Trois<br>eas d'. (Drs. Doyen et Ronssel)                                | 197  | Barrett (W. F.), remarks on Aeti-<br>nomyeosis - - - -                                                                    | 202  |
| Actinomycosis. (Prof. Crook-<br>shank) - - - -                                                     | 192  | "Beri-beri," disease known as -                                                                                           | 120  |
| — in man - - - -                                                                                   | 196  | Blackwell (Dr. Elizabeth), remarks<br>in discussion on rabies - -                                                         | 55   |
| —, manifestations of - -                                                                           | 193  | Blanchard (Dr. R.), remarks on<br>the infection of meat and milk -                                                        | 127  |
| —, prevalence of, in England -                                                                     | 193  | — ——. Sur les Végétaux para-<br>sites (non-microbiens) trans-<br>missibles des animaux à l'homme<br>et réciproquement - - | 88   |
| — —, in Australia - -                                                                              | 194  | Bordoni-Uffreduzzi (Dr.) Sur le<br>traitement antirabique de<br>Pasteur - - - -                                           | 42   |
| — —, in the United States -                                                                        | 195  | Botryomyces - - - -                                                                                                       | 97   |
| Adams (Matthew A.), remarks on<br>The Inspection of Meat with<br>regard to Prevention of Disease - | 186  | Brown (Prof., C.B.), remarks on<br>Végétaux parasites transmis-<br>sibles des animaux à l'homme,<br>cte. - - - -          | 100  |
| Air, importance of pure, to health<br>of animals - - - -                                           | 227  | — —, remarks on rabies - -                                                                                                | 56   |
| Ankylostoma duodenalis, Sur<br>l'enkystement des larves mûres<br>de l' - - - -                     | 191  | — —, remarks on anthrax<br>and its relations to workers in<br>various trades - - -                                        | 220  |
| Anthrax and its relations to<br>workers in various trades (W.<br>Duguid) - - - -                   | 211  | — —, remarks on infectious<br>udder diseases of the eow -                                                                 | 153  |
| Anthrax, different forms of -                                                                      | 215  | — —, remarks on dairy sani-<br>tation - - - -                                                                             | 167  |
| —, discovery of the bacillus<br>anthracis - - - -                                                  | 213  | — —, remarks on the inspec-<br>tion of meat with regard to<br>prevention of disease - -                                   | 187  |
| —, disposal of carcasses of<br>animals which have died of -                                        | 217  | — —, remarks on the infection<br>of meat and milk - -                                                                     | 129  |
| —, history of - - - -                                                                              | 212  | Budapest, ueber die praktischen<br>Erfolge der antirabischen Schutz-<br>impfungen in, während des                         |      |
| —, geographical distribution of -                                                                  | 212  |                                                                                                                           |      |
| —, occupations in which infection<br>most frequently occurs - -                                    | 215  |                                                                                                                           |      |
| —, prevention of - - - -                                                                           | 215  |                                                                                                                           |      |
| — —, in man - - - -                                                                                | 218  |                                                                                                                           |      |
| —, transmission of - - -                                                                           | 214  |                                                                                                                           |      |
| —, varying susceptibility of<br>different kinds of animals to -                                    | 213  |                                                                                                                           |      |
| Armstrong (Dr. Henry E.), remarks<br>on Infectious Udder Diseases of<br>the Cow - - - -            | 150  |                                                                                                                           |      |
| — —, remarks on dairy sani-<br>tation - - - -                                                      | 169  |                                                                                                                           |      |
| Aspergillus fumigatus, Fresenius -                                                                 | 96   |                                                                                                                           |      |

|                                                                                                                          | Page |
|--------------------------------------------------------------------------------------------------------------------------|------|
| ersten, vom 15 April 1890—14 April 1891, sich erstreckenden Jahres. (A. Högyes.) - -                                     | 30   |
| Bujwid (Dr. O.). Résultats des vaccinations antirabiques obtenus à Varsovie - - -                                        | 51   |
| <b>C.</b>                                                                                                                |      |
| Carlisle food poisoning case. (A.)                                                                                       | 108  |
| — — — (B.) - - -                                                                                                         | 110  |
| Carsten (Dr. B.). Trichinosis in the Netherlands - - -                                                                   | 56   |
| Cercomonas intestinalis de l'homme et des animaux, sur la diffusion des - - -                                            | 190  |
| Charbon (Anthrax). Sur les dangers que le, fait courir aux ouvriers des différents corps de métiers. (Prof. A. Chauveau) | 203  |
| — — —, traitement des dépouilles à l'usine - - -                                                                         | 208  |
| — — —, traitement des dépouilles aux lieux de production - -                                                             | 207  |
| — — —, travail des cornes - -                                                                                            | 209  |
| — — —, travail des crins et des laines - - -                                                                             | 208  |
| — — —, travail des peaux - -                                                                                             | 209  |
| — — —, mesures propres à faire disparaître ou diminuer les cas de, sur les animaux - -                                   | 204  |
| Chauveau (Prof.) remarks on infectious udder diseases of the cow - - -                                                   | 154  |
| — — —, remarks on concluding resolutions - - -                                                                           | 246  |
| — — —, sur les dangers que le Charbon (anthrax) fait courir aux ouvriers des différents corps de métiers - - -           | 203  |
| Chester food-poisoning case - -                                                                                          | 106  |
| Chioniphe Carteri - - -                                                                                                  | 97   |
| Clarke (Ernest) remarks in reply to vote of thanks - -                                                                   | 247  |
| Collins (Dr. W. J.). Remarks on infectious udder diseases of the cow - - -                                               | 151  |
| Cow, infectious udder diseases of, in relation to epidemic diseases in the human subject. (E. Klein, M.D.) - - -         | 130  |
| Crookshank (Prof.) Actinomycesis - - -                                                                                   | 192  |
| — — —, remarks on actinomycesis - - -                                                                                    | 203  |
| — — —, remarks on infectious udder diseases of the cow - -                                                               | 148  |

|                                                                                                                                                      | Page |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <b>D.</b>                                                                                                                                            |      |
| Dangers que le charbon (anthrax) fait courir aux ouvriers des différents corps de métiers. (Prof. M. A. Chauveau) -                                  | 203  |
| Différentes méthodes de vaccination antirabique - -                                                                                                  | 26   |
| Diphtheria, dissemination of, by milk - - -                                                                                                          | 145  |
| Diseased meat, the appointment of competent assessors to sit with magistrates and assist them, when necessary, in the hearing of cases relating to - | 183  |
| Diseases of animals in Great Britain, table showing number of cases of contagious - -                                                                | 240  |
| Dog-tax, necessity for imposition of, and of registration - -                                                                                        | 21   |
| Doyen et Roussel (Drs.), Trois cas d'actinomyces chez l'homme -                                                                                      | 197  |
| Drysdale (Dr. C. R.), remarks in discussion on rabies - -                                                                                            | 54   |
| Duguid (W.), Anthrax and its relations to Workers in various Trades - - -                                                                            | 211  |
| — — —, remarks on vote of thanks - - -                                                                                                               | 247  |

**E.**

|                                                                        |     |
|------------------------------------------------------------------------|-----|
| Edinburgh disease, the, in milch cows - - -                            | 144 |
| Études sur la rage et sur la vaccination antirabique. (V. Babes) - - - | 22  |

**F.**

|                                                                                        |     |
|----------------------------------------------------------------------------------------|-----|
| Finkelstein (Dr. T.), Résultats statistiques de l'Institut Antirabique de Tiflis - - - | 47  |
| Fleming (George, C. B., LL.D.), remarks on actinomycesis -                             | 203 |
| — — —, remarks on anthrax -                                                            | 219 |
| — — —, remarks on dairy sanitation - - -                                               | 170 |
| — — —, remarks on the inspection of meat with regard to prevention of disease - -      | 186 |
| — — —, remarks on the infection of meat and milk - -                                   | 128 |
| — — —, The propagation and prevention of rabies - -                                    | 16  |
| Food, importance of, in maintaining the health of animals -                            | 229 |







|                                                                                                                            | Page |                                                                                                                                          | Page |
|----------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------|------|
| Parasites internes - - -                                                                                                   | 68   | Presidential address (Sir Nigel Kingseote, K.C.B.) - -                                                                                   | 7    |
| — — — Asearis mystax - -                                                                                                   | 77   | Preuves pour l'efficacité du traitement antirabique - -                                                                                  | 28   |
| — — — Balantidium coli - -                                                                                                 | 71   | Prevention de la Rage après morsure. Résultats obtenus à l'Institut Pasteur au moyen des inoculations anti-rabiques. (Dr. E. Roux) - - - | 8    |
| — — — Bothriocephalus latus -                                                                                              | 82   | Propagation and prevention of rabies. (Dr. George Fleming) -                                                                             | 16   |
| — — — Coccidium oviforme; perfor. ; bigeminum - -                                                                          | 69   | Propagation du virus rabique -                                                                                                           | 25   |
| — — — Distoma hepaticum; lanceolatum - - -                                                                                 | 73   | Proteus virulentissimus - -                                                                                                              | 189  |
| — — — D. sinense - - -                                                                                                     | 75   |                                                                                                                                          |      |
| — — — D. truncatum - - -                                                                                                   | 74   | <b>R.</b>                                                                                                                                |      |
| — — — Echinocoecus - - -                                                                                                   | 80   | Rabid dogs, necessity for destruction of - - - -                                                                                         | 17   |
| — — — Echinorhynchus hominis                                                                                               | 76   | Rabies, influence of wandering dogs in the propagation of -                                                                              | 18   |
| — — — E. moniliformis - -                                                                                                  | 76   | —, propagation and prevention of. (Dr. G. Fleming) - -                                                                                   | 16   |
| — — — Eustrongylus Gigas - -                                                                                               | 77   | —, regulations in force in Berlin for dealing with - - -                                                                                 | 19   |
| — — — Filaria medinensis - -                                                                                               | 78   | —, table showing number of cases of, in England, during the years 1887-90 - - -                                                          | 17   |
| — — — Hæmopsis - - -                                                                                                       | 79   | —, value of muzzle in suppressing Rage, Étiologie et histologie de la -                                                                  | 18   |
| — — — Lamblia intestinalis - -                                                                                             | 70   | —, Études sur la, et sur la vaccination antirabique. (Prof. V. Babes) - - -                                                              | 22   |
| — — — Linguatula - - -                                                                                                     | 79   | —, Prévention de la, après morsure.—Résultats obtenus à l'Institut Pasteur au moyen des inoculations anti-rabiques. (Dr. E. Roux - - - - | 22   |
| — — — Mesogonimus Westermanni - - -                                                                                        | 75   | Railliet (Prof.) Les parasites transmissibles des animaux à l'homme envisagés spécialement au point de vue de la prophylaxie - -         | 57   |
| — — — Oxyuris vermicularis - -                                                                                             | 77   | Redfern (Prof.) remarks on rabies                                                                                                        | 55   |
| — — — Strongylus paradoxus - -                                                                                             | 78   | Regelung der Milchversorgung mit Hinsicht auf uebertragbare Krankheiten. (Prof. Ostertag) -                                              | 155  |
| — — — Tænia canina - - -                                                                                                   | 72   | Registration of all butchers and their premises - - -                                                                                    | 179  |
| — — — T. saginata - - -                                                                                                    | 82   | Résultats des vaccinations antirabiques à St. Pétersbourg, du 1-13 Juillet 1886 au 1-13 Janvier 1891. (V. Kraïouchkine) -                | 46   |
| — — — T. serrata - - -                                                                                                     | 72   | Résultats des Vaccinations Antirabique obtenus à Varsovie. (O. Bujwid) - - -                                                             | 51   |
| — — — T. solium - - -                                                                                                      | 81   | Résultats statistiques de l'Institut antirabique d'Odessa. 18 Tableaux. (J. Bardach) - -                                                 | 35   |
| — — — Trichina spiralis - -                                                                                                | 83   |                                                                                                                                          |      |
| Parasites internes passant des animaux à l'homme par transmission immédiate - - -                                          | 80   |                                                                                                                                          |      |
| Parasites internes passant des animaux à l'homme par transmission médiante - - -                                           | 69   |                                                                                                                                          |      |
| Parasites (non-microbiens) transmissibles des Animaux à l'Homme et réciproquement, Sur les Végétaux (R. Blanchard) -       | 88   |                                                                                                                                          |      |
| Parasites stationnaires permanents                                                                                         | 63   |                                                                                                                                          |      |
| Parasites transmissibles des Animaux à l'homme, envisagés spécialement au point de vue de la Prophylaxie. (Prof. Railliet) | 57   |                                                                                                                                          |      |
| Pearson (Leonard) remarks on dairy sanitation - - -                                                                        | 166  |                                                                                                                                          |      |
| Perroneito (Prof. E.). Maladies Infectieuses des Animaux qui peuvent être transmises à l'homme, et réciproquement -        | 189  |                                                                                                                                          |      |
| — — —, remarks on végétaux parasites transmissibles des animaux à l'homme, etc. - -                                        | 101  |                                                                                                                                          |      |
| — — —, remarks on dairy sanitation - - -                                                                                   | 168  |                                                                                                                                          |      |
| Ponfiek (Prof.), remarks on actinomycosis - - -                                                                            | 199  |                                                                                                                                          |      |
| Portsmouth food poisoning case -                                                                                           | 111  |                                                                                                                                          |      |



|                                    | Page |                                  | Page |
|------------------------------------|------|----------------------------------|------|
| Retford food poisoning case - -    | 109  | Trichinosis in the Netherlands.  |      |
| Robinson (M. K.), remarks on       |      | (Dr. B. Carsten) - -             | 56   |
| dairy sanitation - - -             | 170  | Trichophyton ovoides, Behrend -  | 98   |
| Roussel et Doyen (Drs.). Trois Cas |      | — depilans, Méglin - -           | 90   |
| d'Actinomyecose chez l'Homme -     | 197  | — Tonsnans, Malmstén - -         | 91   |
| Roux (Dr. E.). Prévention de la    |      | Trois cas d'actinomyecose chez   |      |
| rage après morsure. — Résultats    |      | l'homme. (Drs. Boyen et          |      |
| obtenus à l'Institut Pasteur au    |      | Roussel) - - -                   | 197  |
| moyen des inoculations anti-       |      | Turner (Dr. Geo.), remarks on    |      |
| rabiques - - -                     | 8    | infectious udder diseases of the |      |
| — —, remarks on rabies - -         | 56   | cow - - -                        | 151  |

## S.

|                                      |     |
|--------------------------------------|-----|
| St. Pétersbourg, Résultats des vac-  |     |
| einations antirabiques à, de         |     |
| Juillet 1886 à Janvier 1891.         |     |
| (V. Kraïouehkine) - -                | 46  |
| Salmon (Dr. D. E.), remarks on       |     |
| actinomyecosis - -                   | 200 |
| — —, remarks on concluding           |     |
| resolutions - - -                    | 247 |
| — —, The inspection of meat          |     |
| with reference to the spread of      |     |
| disease - - -                        | 171 |
| Scarlatina and diseases of the cow - | 130 |
| — —, extract from the <i>Prac-</i>   |     |
| <i>titioner</i> on - - -             | 135 |
| Selenesporium euticola, R. Bl. -     | 97  |
| Sergeant (Edward), remarks on        |     |
| dairy sanitation - - -               | 171 |
| Simpson (Sir Henry), remarks on      |     |
| rabies - - -                         | 55  |
| — —, remarks on actinomy-            |     |
| cosis - - -                          | 203 |
| Slaughter-houses, the closing of     |     |
| private - - -                        | 180 |
| Smith (Fred.). Veterinary Hy-        |     |
| giene - - -                          | 221 |
| Stables, importance of improve-      |     |
| ments in - - -                       | 232 |
| State veterinary hygiene - -         | 237 |
| Statistique du traitement préventif  |     |
| de la Rage à la Station de Tiflis    | 50  |
| Substances chimiques produites par   |     |
| le virus rabique - - -               | 24  |

## T.

|                                    |    |
|------------------------------------|----|
| Tiflis, Résultats statistiques de  |    |
| l'Institut antirabique de. (T.     |    |
| Finkelstein) - - -                 | 47 |
| Traitement Antirabique de Pasteur, |    |
| Sur le. (Dr. Bordoni-Uffreduzzi)   | 42 |
| — —, Preuves pour l'efficacité     |    |
| du - - -                           | 28 |

## U.

|                                   |    |
|-----------------------------------|----|
| Ueber die praktischen enfolge der |    |
| antirabischen schutzimpfungen     |    |
| in Budapest während des           |    |
| ersten, vom 15 April 1890—14      |    |
| April 1891 sich erstreckenden     |    |
| Jahres. (A. Högyes) - -           | 30 |

## V.

|                                       |     |
|---------------------------------------|-----|
| Vaccination antirabique, différentes  |     |
| méthodes de - - -                     | 26  |
| — — Études sur la rage et             |     |
| sur la. (Prof. V. Babes) - -          | 22  |
| Vacher (Francis), remarks on          |     |
| dairy sanitation - - -                | 167 |
| — —, The inspection of meat           |     |
| with regard to the prevention of      |     |
| disease - - -                         | 177 |
| Vaughan (Dr. Victor C.). The          |     |
| infection of meat and milk -          | 118 |
| Végétanx parasites (non-microbiens)   |     |
| transmissibles des animaux à          |     |
| l'homme et réciproquement.            |     |
| (Dr. R. Blanchard) - - -              | 88  |
| Ventilation, importance, of in build- |     |
| ings inhabited by animals -           | 229 |
| Veterinary hygiene. (Fred. Smith)     | 221 |
| — —, clipping - - -                   | 236 |
| — —, grooming - - -                   | 235 |
| — —, individual - - -                 | 234 |
| — —, special - - -                    | 240 |
| — —, State - - -                      | 237 |
| Virus rabique, substances chimiques   |     |
| produites par le - - -                | 24  |
| — —, propagation du - -               | 25  |
| Viandes charbonneuses, alimenta-      |     |
| tion avec des - - -                   | 210 |



## W.

Page

|                                    | Page |                                     |  |     | Page |
|------------------------------------|------|-------------------------------------|--|-----|------|
| Walley (Prof.), remarks on actino- |      | Water, importance of, in the spread |  |     |      |
| mycosis - - - - -                  | 201  | or production of disease amongst    |  |     |      |
| --- —, remarks on infectious       |      | animals - - - - -                   |  | 226 |      |
| udder diseases of the cow -        | 149  | Welbeck food poisoning case -       |  | 105 |      |
| — —, remarks on dairy sani-        |      | Whitchurch brawn case - - -         |  | 107 |      |
| tation - - - - -                   | 169  | Whitchurch roast pork case -        |  | 107 |      |
| — —, remarks on vote of            |      | Wiltshire and Hendon cow diseases,  |  |     |      |
| thanks - - - - -                   | 247  | differences between - - - -         |  | 143 |      |
| — —, remarks on the inspec-        |      | Wiltshire cow disease - - -         |  | 142 |      |
| tion of meat with regard to pre-   |      | Wolverhampton tinned salmon         |  |     |      |
| vention of disease - - -           | 186  | poisoning case - - - - -            |  | 107 |      |
|                                    |      | Wool-sorters' disease - - -         |  | 215 |      |





## VOLUME IV.

# INFANCY, CHILDHOOD, AND SCHOOL LIFE.

### Table of Contents and Index.

#### TABLE OF CONTENTS.

|                                                                                                                          | Page |
|--------------------------------------------------------------------------------------------------------------------------|------|
| Presidential Address - - - - -                                                                                           | 7    |
| The Scientific Observation and Study of Children in Schools, and the Classes<br>into which they may be grouped - - - - - | 10   |
| Discussion - - - - -                                                                                                     | 15   |
| Physical Indications of Injurious Schooling - - - - -                                                                    | 20   |
| Discussion - - - - -                                                                                                     | 26   |
| Ringworm in Elementary Schools - - - - -                                                                                 | 27   |
| Discussion - - - - -                                                                                                     | 29   |
| Epidemics in Schools - - - - -                                                                                           | 30   |
| Handwriting in relation to Hygiene - - - - -                                                                             | 47   |
| Demonstrationen die Einführung der Steilschrift in die Schulen betreffend -                                              | 53   |
| Discussion - - - - -                                                                                                     | 57   |
| American Child-Labour Laws - - - - -                                                                                     | 57   |
| An Objectionable Feature of some Burial Societies in their relation to Infant<br>Life Insurance - - - - -                | 67   |
| Discussion - - - - -                                                                                                     | 70   |
| Defective Personal Hygiene as it affects the Teeth in Infancy, Childhood,<br>and School Life - - - - -                   | 71   |
| Resolution submitted by the School Board for Hull - - - - -                                                              | 87   |
| The Working Curve of an Hour: an Experiment concerning Overpressure of<br>Brain - - - - -                                | 87   |
| L'Hygiène Scolaire en Belgique - - - - -                                                                                 | 95   |
| Some of the Laws which Influence the Growth of the Child - - - - -                                                       | 103  |
| Discussion - - - - -                                                                                                     | 108  |
| Physical Education - - - - -                                                                                             | 110  |
| Physical Exercises in Elementary Schools: a part of the School Hygiene -                                                 | 114  |
| Discussion - - - - -                                                                                                     | 118  |
| The Value of Hygienic Education to Women - - - - -                                                                       | 119  |
| Manual Training in Relation to Health - - - - -                                                                          | 123  |
| Discussion - - - - -                                                                                                     | 130  |
| Neglected Children in our Towns and Cities - - - - -                                                                     | 131  |

|                                                                                                                                         | Page |
|-----------------------------------------------------------------------------------------------------------------------------------------|------|
| Des progrès de la diffusion de l'instruction publique en Belgique, au point de vue de la criminalité et de l'aliénation mentale - - -   | 137  |
| The Development of the Reformatory and Industrial School System in England - - - - -                                                    | 146  |
| L'enfant à tendances criminelles ou placé dans un milieu criminel - -                                                                   | 170  |
| Discussion - - - - -                                                                                                                    | 174  |
| Assistance des Orphelins considérée au point de vue de leur hygiène physique et morale - - - - -                                        | 175  |
| Ueber die Nothwendigkeit der Reconvalescenthäuser für Kinder - -                                                                        | 186  |
| Free Dinners for School Children - - - - -                                                                                              | 191  |
| Can Hungry and Half-clothed Children be efficiently Educated ? - -                                                                      | 195  |
| L'enfant pauvre - - - - -                                                                                                               | 196  |
| Discussion - - - - -                                                                                                                    | 201  |
| The Care and Treatment of Epileptic, Mentally Feeble, and Imbecile Children - - - - -                                                   | 203  |
| The Care of the "Mentally Feeble" Child as distinguished from the "Imbecile" - - - - -                                                  | 208  |
| Antrag Erhebungen über psychopathisch minderwertige Kinder anzustellen                                                                  | 212  |
| Kinder mit abnormer Kopfbildung - - - - -                                                                                               | 219  |
| Discussion - - - - -                                                                                                                    | 221  |
| The Education of the Blind - - - - -                                                                                                    | 224  |
| The Physical, Manual, and Technical Education of Deaf Mutes - -                                                                         | 237  |
| Zur Hygiene der Sprache des Kindes - - - - -                                                                                            | 241  |
| Ueber die Sehschärfe der Schüler - - - - -                                                                                              | 247  |
| On the Importance of Detecting and Treating Defects of Vision and of Hearing in Board-School Children - - - - -                         | 252  |
| Nécessité des études anthropologiques et anthropométriques dans la première enfance, la jeunesse, la vie d'école, et l'âge adulte - - - | 254  |
| Discussion - - - - -                                                                                                                    | 262  |

## INDEX.



## INDEX.

| A.                                                                                                                                                           | Page | Page                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------|
| Agreement with the managers of voluntary industrial schools, copy of usual form of - - -                                                                     | 161  | Blind, report of the Royal Commission on, in 1889 - - - 225                                                                   |
| American child-labour laws. (A. Jacobi, M.D.) - - -                                                                                                          | 57   | —, suggestions for an educational system for the - - - 228                                                                    |
| Antiseptic agent desirable in tooth powder - - -                                                                                                             | 79   | —, — national system of training for the - - - 232                                                                            |
| Antrag Erhebungen ueber psychopathisch minderwertige Kinder anzustellen. (L. Strümpell, J. L. A. Koch, E. Schmidt, E. Hasse) - - -                           | 212  | —, The education of the. (F. J. Campbell) - - - 224                                                                           |
| Armitage (Dr.), founder of the British and Foreign Blind Association - - -                                                                                   | 233  | Boarding schools, hospital accommodation requisite for dealing with outbreaks of epidemic illness in large - - - 45           |
| Assistance des Orphelins considérée au point de vue de leur Hygiène Physique et Morale. (Dr. Victor Desguin) - - -                                           | 175  | Braille system of dots in forming the characters in printing and writing for the blind - - - 234                              |
| B.                                                                                                                                                           |      | Brentwood Industrial School - 152                                                                                             |
| Baker (Lloyd), remarks in discussion on Can hungry and half-clothed children be efficiently educated? - - -                                                  | 202  | British Dental Association investigation, principal features of the - 82                                                      |
| — —, on L'enfant à tendances Criminelles ou placé dans un Milieu Criminel - - -                                                                              | 175  | Broman (Allan), Physical exercises in elementary schools - - 114                                                              |
| Balfour (Mr. Graham), remarks in discussion on the scientific observation and study of children in schools, and the classes into which they may be grouped - | 16   | Bronner (Adolph), On the importance of detecting and treating defects of vision and of hearing in Board School children - 252 |
| Beach (Fletcher), The care and treatment of epileptic, mentally feeble, and imbecile children -                                                              | 203  | Brown (Dr. William), remarks in discussion on manual training in relation to health - - 123                                   |
| — —, amendment seconded by                                                                                                                                   | 224  | Burgerstein (Dr. Leo), The working curve of an hour; an experiment concerning overpressure of brain - 87                      |
| — —, remarks in discussion on the scientific observation and study of children in schools -                                                                  | 16   | — —, remarks in discussion of some of the laws which influence the growth of the child - 109                                  |
| Belgique, L'Hygiène Scolaire en. (Dr. Hyac. Kuborn) - -                                                                                                      | 95   | Burial Societies in their relation to infant life insurance, Objectionable features of some. (Charles E. Paget) - - - 67      |
| Besant (Mrs. Annie), Can hungry and half-clothed children be efficiently educated? - -                                                                       | 195  | — —, provisions of mutual - 69                                                                                                |
| <i>i</i> p. 2620.                                                                                                                                            |      | — —, suggested improvements in provisions of mutual - 69                                                                      |
| C.                                                                                                                                                           |      | Campbell (F. J.), The education of the blind - - - 224                                                                        |
| Care and treatment of epileptic, mentally feeble, and imbecile children. (Dr. Fletcher Beach) 203                                                            |      | Y                                                                                                                             |

|                                                                                                                       | Page |
|-----------------------------------------------------------------------------------------------------------------------|------|
| Caries, best means of counteracting                                                                                   | 75   |
| —, conditions causing frequency of                                                                                    | 72   |
| —, effects of                                                                                                         | 71   |
| —, necessity for remedial treatment of                                                                                | 82   |
| Chalmers (Dr.), remarks in discussion on l'Enfant Pauvre                                                              | 201  |
| Cheadle (Dr.), remarks in discussion on physical indications of injurious schooling                                   | 26   |
| Child-labour laws, American. (Dr. A. Jacobi)                                                                          | 57   |
| —, object of                                                                                                          | 65   |
| Children, individual remedial agencies for dealing with neglected                                                     | 135  |
| — in schools, The scientific observation of, and the classes into which they may be grouped. (Dr. Francis Warner)     | 10   |
| —, the study of                                                                                                       | 14   |
| —, social remedial agencies for dealing with neglected                                                                | 134  |
| —, the classes or groups of, found in schools                                                                         | 12   |
| — with low nutrition, table showing conditions presented by                                                           | 14   |
| Chorea in school children, detection of                                                                               | 23   |
| Cities, Neglected children in our towns and. (William Mitchell)                                                       | 131  |
| Connecticut, child-labour laws in                                                                                     | 64   |
| Criminalité, Progrès de la Diffusion de l'Instruction publique en Belgique, au point de vue de la. (Dr. Hyac. Kuborn) | 137  |
| Criminality, table showing progress of from 1836-1885, and of elementary public instruction in Belgium from 1840-1880 | 143  |
| Cunningham (Geo.), Defective personal hygiene as it affects the teeth in infancy, childhood, and school life          | 71   |

## D.

|                                                                                        |        |
|----------------------------------------------------------------------------------------|--------|
| Davies (J. Llwyn), Free dinners for school children                                    | 191    |
| Day scholars, attendance of at schools, favours the introduction of epidemic infection | 34, 43 |
| Day schools favourable to the incidence of epidemics                                   | 33     |

|                                                                                                              | Page |
|--------------------------------------------------------------------------------------------------------------|------|
| Deaf mutes, The physical, manual, and technical education of. (General Moberly)                              | 237  |
| Defective personal hygiene as it affects the teeth in infancy, childhood, and school life. (Geo. Cunningham) | 71   |
| Deformities which develop during growing life                                                                | 107  |
| Desguin (Victor), Assistance des Orphelins considérée au point de vue de leur Hygiène Physique et Morale     | 175  |
| Detection of chorea in school children                                                                       | 23   |
| Development of the reformatory and industrial school system in England. (Colonel Lenox Prendergast)          | 146  |
| Diggle (Joseph R.), Presidential address by                                                                  | 7    |
| Disinfecting apparatus necessary in school sanatorium                                                        | 46   |
| Dorsal curvature, description of                                                                             | 107  |
| Dot system of forming the characters in printing and writing for the blind                                   | 234  |
| Down (Dr. J. Langdon), remarks in discussion on the scientific observation and study of children in schools  | 18   |
| Dwellings, large number of single-room, in Glasgow                                                           | 131  |
| —, legislative remedies for dealing with one-room                                                            | 133  |

## E.

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Education Act of 1876, the Elementary, provisions of                    | 153 |
| Education, danger of confounding with teaching                          | 8   |
| — of deaf mutes, The Physical, manual, and technical. (General Moberly) | 237 |
| — of the Blind. (F. J. Campbell)                                        | 224 |
| —, physical, from the hygienic point of view                            | 116 |
| —, Physical. (George White)                                             | 110 |
| —, the New, advantages of                                               | 124 |
| —, the object of physical                                               | 116 |
| —, The value of hygienic, to women. (A. T. Schofield)                   | 119 |
| Elementary schools, physical exercises in                               | 114 |

|                                                                                                                                                               | Page |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Epidemic, conditions favouring the establishment and spread of an, in schools - - -                                                                           | 34   |
| — Roseola - - -                                                                                                                                               | 44   |
| Epidemics, empirical laws of measles - - -                                                                                                                    | 40   |
| — in schools. (Dr. Shelly) -                                                                                                                                  | 39   |
| Erhebungen ueber psychopathisch miuiderwertige Kinder. (L. Strümpell, J. L. A. Koch, E. Schmidt, E. Hasse) - -                                                | 212  |
| Erhebungsformulärs, Entwurf eines, für Untersuchung ueber psychopathische Minderwertigkeit der Kinder - - -                                                   | 217  |
| Escherich (Dr.), remarks in discussion on Kinder mit abnormer Kopfbildung - - -                                                                               | 221  |
| Études anthropologiques et anthropométriques dans la première Enfance, la Jeunesse, la Vie de l'École et l'Age adulte, nécessité des. (M. de Tolosa-Latour) - | 254  |
| Exercises, Swedish system of physical - - -                                                                                                                   | 113  |

## F.

|                                                                                                           |     |
|-----------------------------------------------------------------------------------------------------------|-----|
| Feeble-minded, evils of neglecting the education of the - - -                                             | 205 |
| — — —, importance of the care and treatment of the - - -                                                  | 204 |
| Feret (Mons. A.), remarks in discussion on some of the laws which influence the growth of the child - - - | 109 |
| Fox (Dr. T. Colcott), remarks in discussion on ringworm in elementary schools - - -                       | 29  |
| Free dinners for school children. (J. Llwyn Davies) - - -                                                 | 191 |

## G.

|                                                                                                                                              |     |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Gallandet (Dr.), remarks in discussion on the importance of detecting and treating defects of vision and of hearing in school children - - - | 262 |
| Gauster (Dr. Moritz), remarks in discussion on the scientific observation and study of children in schools - - -                             | 17  |
| Gladstone (Dr.), remarks in discussion on some of the laws which influence the growth of the child - - -                                     | 109 |

|                                                                                                                                             |     |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Grimsshaw (Dr. T. W.), remarks in discussion on L'enfant à Tendances Criminelles ou placé dans un Milieu criminel, - - -                    | 175 |
| Gutzmann (H.), Zur Hygiene der Sprache des Kindes - - -                                                                                     | 241 |
| Gutzmann (Dr.), remarks in discussion on the importance of detecting and treating defects of vision and of hearing in school children - - - | 263 |
| Guye (Prof.), remarks in discussion on Kinder mit abnormer Kopfbildung - - -                                                                | 221 |

## H.

|                                                                                                                                                   |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Handwriting in relation to hygiene. (J. Jackson) - - -                                                                                            | 47  |
| —, origin and development of -                                                                                                                    | 48  |
| Hasse (Ernst), Strümpell (Ludwig), Koch (J. L. A.), Schmidt (Emil). Antrag Erhebungen ueber psychopathisch minderwertige Kinder anzustellen - - - | 212 |
| Health Certificates, as a check on the introduction of infection into schools - - -                                                               | 42  |
| —, Manual training in relation to. (Sir Philip Magnus) -                                                                                          | 123 |
| Hearing, importance of detecting and treating defects of, in Board-school children. (Adolph Bronner) - - -                                        | 252 |
| Hill (Dr. William), remarks in discussion on Kinder mit abnormer Kopfbildung - - -                                                                | 223 |
| — (Miss Davenport), remarks in discussion on l'enfant à Tendances Criminelles ou placé dans un Milieu Criminel - - -                              | 174 |
| Holden (Dr.), remarks in discussion on Can hungry and half-clothed children be efficiently educated? -                                            | 202 |
| Hospital accommodation necessary for dealing with outbreaks of epidemic illness in large boarding schools - - -                                   | 45  |
| Hull, the School Board for, Resolution submitted by - - -                                                                                         | 87  |
| Hutton (Dr. H. R.), remarks in discussion on burial societies in relation to infant life insurance -                                              | 71  |
| Hygiene, increasing education of the public in general - - -                                                                                      | 32  |



|                                                                                                                                | Page |
|--------------------------------------------------------------------------------------------------------------------------------|------|
| Hygiene, Handwriting in relation to.<br>(J. Jackson) - - -                                                                     | 47   |
| — value of the knowledge of<br>personal and domestic, to mis-<br>tresses, mothers, governesses,<br>teachers, nurses, &c. - - - | 122  |
| —, value of the knowledge of<br>personal and domestic, to women                                                                | 121  |
| Hygiene der Sprache des Kindes.<br>(H. Gutzmann) - - -                                                                         | 241  |

## I.

|                                                                                                                                 |     |
|---------------------------------------------------------------------------------------------------------------------------------|-----|
| Idiots and Imbeciles, description of<br>training given in institutions for                                                      | 206 |
| Imbecile children, care and treat-<br>ment of - - - -                                                                           | 206 |
| Importance of detecting and treat-<br>ing defects of vision and of<br>hearing in Board-school children.<br>(Adolph Bronner) -   | 252 |
| Industrial schools, certified Day,<br>established in 1876 - -                                                                   | 158 |
| — —, contributions to volun-<br>tary (buildings) - -                                                                            | 152 |
| — — Department of the Lon-<br>don School Board, table showing<br>cost of - - - -                                                | 163 |
| — —, tables showing children<br>sent by the School Board for<br>London to, during 1890, and<br>since 1871 - - - -               | 150 |
| — —, table showing class of<br>children sent to - - -                                                                           | 149 |
| — —, table showing cost of -                                                                                                    | 160 |
| — — under the management<br>of the London School Board -                                                                        | 152 |
| — —, voluntary, table showing<br>the scale of payments made to<br>the - - - - -                                                 | 151 |
| — — system in England, De-<br>velopment of the reformatory and.<br>(Colonel Lenox Prendergast) -                                | 146 |
| — —, the Brentwood -                                                                                                            | 152 |
| Infant life insurance, Objectionable<br>feature of some burial societies in<br>their relation to. (Charles E.<br>Paget) - - - - | 67  |
| Infection, checks on the introduc-<br>tion of, into schools - -                                                                 | 42  |

## J.

|                                                             |    |
|-------------------------------------------------------------|----|
| Jackson (J.), Handwriting in rela-<br>tion to hygiene - - - | 47 |
| Jacobi (Dr. A.), American child-<br>labour laws - - -       | 57 |

|                                                                                                               | Page |
|---------------------------------------------------------------------------------------------------------------|------|
| Jacobi (Dr. A.), remarks in diseus-<br>sion on the scientific observation<br>and study of children in schools | 17   |

## K.

|                                                                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Kinder mit abnormer Kopfbildung.<br>(Prof. E. Ritter von Hofmann) -                                                                                                 | 219 |
| Knoek knee, description of -                                                                                                                                        | 107 |
| Koeh (J. L. A.), Schmidt (Emil),<br>Hasse (Ernst), Strümpell (Lud-<br>wig), Antrag Erhebungen ueber<br>psychopathisch minderwertige<br>Kinder aufzustellen - -      | 212 |
| Kotelmann (L.), Demonstrationen<br>die Einführung der Steilschrift<br>in die Schulen betreffend -                                                                   | 53  |
| — —, resolution moved by -                                                                                                                                          | 224 |
| — —, Ueber die Sehshaerfe<br>der Schüler - - -                                                                                                                      | 247 |
| — —, remarks in discussion<br>on some of the laws which in-<br>fluence the growth of the child -                                                                    | 109 |
| Kuborn (Dr. Hyac.), Des Progrès<br>de la Diffusion de l'Instruction<br>publique en Belgique, au point<br>de vue de la Criminalité et de<br>l'Aliénation mentale - - | 137 |
| — —, L'Hygiène Scolaire en<br>Belgique - - -                                                                                                                        | 95  |

## L.

|                                                                                                  |     |
|--------------------------------------------------------------------------------------------------|-----|
| Lane (W. Arbuthnot), Some of the<br>laws which influence the growth<br>of the child - - -        | 103 |
| Lateral curvature, description of -                                                              | 107 |
| Laundry necessary in connexion<br>with school sanatorium - -                                     | 46  |
| L'Enfant à Tendances Criminelles<br>ou placé dans un Milieu Criminel.<br>(Théophile Roussel) - - | 170 |
| — Pauvre. (Théophile Roussel)                                                                    | 196 |
| L'Hygiène Scolaire en Belgique.<br>(Dr. Hyac. Kuborn) - -                                        | 95  |

## M.

|                                                                   |     |
|-------------------------------------------------------------------|-----|
| Magnus (Sir Philip), Manual train-<br>ing in relation to health - | 123 |
| Maine, child-labour laws in -                                     | 62  |
| Manual training, advantages of -                                  | 126 |
| — — in relation to health.<br>(Sir Philip Magnus) - -             | 123 |



|                                                                                                                     | Page    |
|---------------------------------------------------------------------------------------------------------------------|---------|
| Margerison (George), remarks in discussion on l'enfant à Tendances Criminelles ou placé dans un Milieu Criminel - - | 174     |
| Maryland, child-labour laws in -                                                                                    | 62      |
| Massachusetts, child-labour laws in -                                                                               | 63      |
| Masters' houses, separate, effect of, in delaying the progress of an epidemic in schools - -                        | 43      |
| Mavor (Professor James), remarks on the institution of the Caisse d'Ecole in Paris - -                              | 202     |
| Measles, chief epidemics of, in schools, occur at intervals of about two or three years -                           | 41      |
| — epidemics, empirical laws of -                                                                                    | 40      |
| — and whooping cough, equality between the number of school children affected - -                                   | 32, 43  |
| —, essentially the type of an epidemic disease - -                                                                  | 39      |
| —, terminal returns for - -                                                                                         | 44      |
| Meath (Lord), remarks in discussion on physical exercises in elementary schools - -                                 | 118     |
| — —, remarks in discussion on Can hungry and half-clothed children be efficiently educated? -                       | 202     |
| Mensurations anthropométriques (Juin 1891) Tableau des maximum, minimum, moyennes -                                 | 259-261 |
| "Mentally-feeble" child, care of the. (G. E. Shuttleworth) -                                                        | 208     |
| — —, measures adopted in Germany for the care of the -                                                              | 210     |
| — —, measures adopted in Norway for the care of the -                                                               | 209     |
| Mettray system of treating offenders under 16 years of age -                                                        | 146     |
| Mitchell (William), Neglected children in our towns and cities -                                                    | 131     |
| Moberly (General), The physical, manual, and technical education of deaf mutes - -                                  | 237     |
| — —, remarks in discussion on the scientific observation and study of children in schools -                         | 17      |
| Morris (Malcolm), Ringworm in elementary schools - -                                                                | 27      |
| Mortality from preventible causes, statistics showing - -                                                           | 120     |
| Movable Dwellings Bill, objects of -                                                                                | 136     |
| Mumps responsible for many epidemics before puberty - -                                                             | 45      |
| Music as a profession for the blind -                                                                               | 229     |

## N.

|                                                                                                                                                               | Page |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Nécessité des Études anthropologiques et anthropométriques dans la première Enfance, la Jeunesse la Vie de l'Ecole et l'Age adulte. (M. de Tolosa-Latonr) - - | 254  |
| Neglected children in our towns and cities. (William Mitchell) -                                                                                              | 131  |
| New Hampshire, child-labour laws in - - - -                                                                                                                   | 61   |
| New Jersey, child-labour laws in -                                                                                                                            | 62   |
| New York, child-labour laws in -                                                                                                                              | 64   |
| — — — system of types for the blind compared with the Braille system - - - -                                                                                  | 235  |
| Nigg (Marianne), Ueber die Nothwendigkeit der Reconvalescentenhäuser für Kinder - -                                                                           | 186  |

## O.

|                                                                |    |
|----------------------------------------------------------------|----|
| Ohio, child-labour laws in - -                                 | 63 |
| Over-pressure, resolutions respecting the question of mental - | 95 |

## P.

|                                                                                                                                                          |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Paget (Charles E.) An objectionable feature of some burial societies in their relation to infant life insurance - -                                      | 67  |
| Pankhurst (Dr.), remarks in discussion on free dinners for school children, and on Can hungry and half-clothed children be efficiently educated? - - - - | 201 |
| Pennsylvania, child-labour laws in -                                                                                                                     | 64  |
| Physical education. (George White) - - - -                                                                                                               | 110 |
| — exercises in elementary schools. (Allan Broman) -                                                                                                      | 114 |
| — indications of injurious schooling. (Dr. Octavius Sturges) -                                                                                           | 20  |
| Physical, manual, and technical education of deaf mutes. (General Moberly) - - - -                                                                       | 237 |
| Prendergast (Colonel Lenox), The development of the reformatory and industrial school system in England - - - -                                          | 146 |
| Presidential address. (Joseph R. Diggle) - - - -                                                                                                         | 7   |
| Progrès de la Diffusion de l'Instruction publique, en Belgique au point de vue de la Criminalité et de l'Aliénation mentale. (Dr. Hyac. Kuborn) - - -    | 137 |

## Q.

|                                | Page |
|--------------------------------|------|
| Quebec, child-labour laws in - | 61   |

## R.

|                                                                                                                               |         |
|-------------------------------------------------------------------------------------------------------------------------------|---------|
| Reconvalescentenhäuser für Kinder,<br>Ueber die Nothwendigkeit der.<br>(Marianne Nigg) - -                                    | 186     |
| Reformatory and industrial school<br>ships, return respecting, from<br>1886-1890 - - -                                        | 164-169 |
| — schools, table showing cost of                                                                                              | 160     |
| — and industrial school system,<br>Development of. (Lenox Prendergast) - - -                                                  | 146     |
| Rhode Island, child-labour laws in -                                                                                          | 62      |
| Rhodes (Dr. Jno. Milson), remarks<br>in discussion on the scientific<br>observation and study of children<br>in schools - - - | 19      |
| Richards (J. Peeke), remarks in<br>discussion on the scientific ob-<br>servation and study of children<br>in schools - - -    | 19      |
| Rickets, observations on - - -                                                                                                | 106     |
| Ringworm in elementary schools.<br>(Malcolm Morris) - - -                                                                     | 27      |
| — in elementary schools, syste-<br>matic inspection for - - -                                                                 | 28      |
| Rötheln epidemics, before or after<br>measles - - -                                                                           | 44      |
| Roseola, epidemic - - -                                                                                                       | 44      |
| Roussel (Théophile), l'Enfant à<br>Tendances Criminelles on placé<br>dans un Milieu Criminel - -                              | 170     |
| — —, l'Enfant Pauvre - -                                                                                                      | 196     |

## S.

|                                                                                                                                                           |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Sanitation and education, close<br>connexion of, recognised in<br>Glasgow - - -                                                                           | 133 |
| Schmidt (Emil), Hasse (Ernst),<br>Strümpell (Ludwig), Koch<br>(J.K.A.), Antrag Erhebungen<br>ueber psychopathisch minder-<br>wertige Kinder anzustellen - | 212 |
| Schofield (A. T.), The value of<br>hygienic education to women -                                                                                          | 119 |
| Schooling, Physical indications of<br>injurious. (Octavius Sturges) -                                                                                     | 20  |
| Schools, Epidemics in. (Dr.<br>Shelly) - - -                                                                                                              | 30  |
| —, importance of subdivision<br>into two distinct establishments,<br>in large - - -                                                                       | 43  |

## Page

|                                                                                                                                                               |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Scientific observation and study of<br>children in schools, and the<br>classes into which they may be<br>grouped. (Dr. Francis Warner)                        | 10       |
| Sehshaerfe der Schüler, ueber die.<br>(L. Kotelmann) - - -                                                                                                    | 247      |
| Servants, separate accommodation<br>necessary for, in large boarding<br>schools - - -                                                                         | 46       |
| "Shaftesbury" training ship -                                                                                                                                 | 152      |
| Shelly (Dr. C. E.), Epidemics in<br>schools - - -                                                                                                             | 30       |
| Shuttleworth (G. E.), The care of<br>the "mentally feeble" child (as<br>distinguished from the "im-<br>becile") - - -                                         | 208      |
| — —, remarks in discussion<br>on the scientific observation and<br>study of children in schools and<br>the classes into which they may<br>be grouped - - -    | 15       |
| Skeleton, variations in the forms<br>of the bones of the human -                                                                                              | 104      |
| Smith (Noble), remarks in dis-<br>cussion on the scientific obser-<br>vation and study of children in<br>schools - - -                                        | 19       |
| — —, remarks in discussion<br>on handwriting in relation to<br>hygiene - - -                                                                                  | 57       |
| — —, remarks in discussion<br>on physical exercises in elemen-<br>tary schools - - -                                                                          | 118      |
| Some of the laws which influence<br>the growth of the child. (W.<br>Arbuthnot Lane) - - -                                                                     | 103      |
| Spencer (Herbert), quoted on the<br>importance of the science of<br>hygiene to human health and<br>happiness - - -                                            | 119      |
| Sprache des Kindes, zur hygiene<br>der. (H. Gutzman) - - -                                                                                                    | 241      |
| State interference in the upbringing<br>of children, necessity for - -                                                                                        | 9        |
| Statistics showing proportion be-<br>tween crime and population in<br>Belgium - - -                                                                           | 138, 139 |
| Steilschrift, die Einführung der, in<br>die Schulen betreffend. (L.<br>Kotelmann) - - -                                                                       | 53       |
| Strümpell (Ludwig), Koch<br>(J. L. A.), Schmidt (Emil),<br>Hasse (Ernst), Antrag Erhebun-<br>gen ueber psychopathisch min-<br>derwertige Kinder anzustellen - | 212      |

|                                                                   | Page |
|-------------------------------------------------------------------|------|
| Sturges (Octavius), Physical indications of injurious schooling - | 20   |
| Suicides in Belgium, increase in number of - - -                  | 145  |
| Swedish system of exercises -                                     | 113  |

## T.

|                                                                                                                                                             |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Table giving general analysis of cases in the scientific observation and study of children in schools                                                       | 12  |
| Table showing conditions presented by school children with low nutrition - - -                                                                              | 14  |
| Teaching, danger of confounding education with - -                                                                                                          | 8   |
| Teeth in infancy, childhood, and school life, Defective personal hygiene as it affects the. (Geo. Cunningham) - - -                                         | 71  |
| Tolosa-Latour (M. de), Nécessite des Études anthropologiques et anthropométriques dans la première Enfance, la Jenness, la Vie de l'Ecole et l'Age adulte - | 254 |
| Tooth-brushes, varieties of -                                                                                                                               | 77  |
| Tooth-powder, action of - -                                                                                                                                 | 79  |
| Towns and cities, Neglected children in our. (William Mitchell)                                                                                             | 131 |
| Truant-schools in London -                                                                                                                                  | 153 |
| —— —, two distinct systems of management in - - -                                                                                                           | 156 |
| Truant school, the Upton House -                                                                                                                            | 154 |
| Turner (Sydney), the originator of the reformatory school system                                                                                            | 146 |
| Typhoid fever, protective influence of vaccination destroyed by -                                                                                           | 45  |

## U.

|                             |     |
|-----------------------------|-----|
| Upton House truant school - | 154 |
|-----------------------------|-----|

## V.

|                                                                    |    |
|--------------------------------------------------------------------|----|
| Vaccination, protective influence of, destroyed by typhoid fever - | 45 |
|--------------------------------------------------------------------|----|

|                                                                                                                                                   |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Value of hygienic education to women. (Dr. A. T. Schofield) -                                                                                     | 119    |
| van Praagh (William), remarks in discussion on the importance of detecting and treating defects of vision and of hearing in school children - - - | 264    |
| Variola, decrease of, during recent years - - -                                                                                                   | 32, 45 |
| Vermont, child-labour laws in -                                                                                                                   | 62     |
| Vision, Importance of detecting and treating defects of, in Board School children. (Adolph Bronner) - - -                                         | 252    |
| von Hofmann (Prof. E. Ritter), Kinder mit abnormer Kopfbildung - - -                                                                              | 219    |

## W.

|                                                                                                                     |        |
|---------------------------------------------------------------------------------------------------------------------|--------|
| Warner (Dr.), amendment moved by - - -                                                                              | 224    |
| —— —, The scientific observation and study of children in schools, and the classes into which they may be grouped - | 10     |
| White (George), Physical education - - -                                                                            | 110    |
| Whooping cough and measles, equality between the number of children affected by - - -                               | 32, 43 |
| —— —, terminal returns for -                                                                                        | 44     |
| Woodward (Dr.), the developer of manual training in American schools - - -                                          | 128    |
| Working curve of an hour: an experiment concerning over-pressure of brain. (Dr. Leo Burgerstein) - - -              | 87     |
| Workshop instruction, requisite conditions for - - -                                                                | 128    |
| Writing, evils of sloping - - -                                                                                     | 49     |
| —— —, posture commonly prescribed for sloping - - -                                                                 | 51     |
| —— —, vertical, advantages of -                                                                                     | 50     |







## VOLUME V.

CHEMISTRY AND PHYSICS IN RELATION TO  
HYGIENE.

## Table of Contents and Index.

## TABLE OF CONTENTS.

|                                                                                                                                                                                               | Page |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Presidential Address - - - - -                                                                                                                                                                | 7    |
| On Town Fogs and their Effects - - - - -                                                                                                                                                      | 11   |
| The Air of Large Towns : Methods of Analysis - - - - -                                                                                                                                        | 22   |
| Discussion - - - - -                                                                                                                                                                          | 26   |
| The Means at our Disposal for Preventing the Emission of Smoke from<br>Factories and from Dwelling Houses - - - - -                                                                           | 28   |
| Discussion - - - - -                                                                                                                                                                          | 37   |
| Demonstration of the Possibility of Removing the Smoke of Fires from the<br>Air of Towns and of Using it for Disinfecting Sewers - - - - -                                                    | 37   |
| The Chemical Treatment of Sewage with special reference to the Treatment<br>of London Sewage - - - - -                                                                                        | 39   |
| Chemical and Physical Processes employed in the Treatment of Sewage - - - - -                                                                                                                 | 40   |
| The Duty of a Locality to Utilise the Nitrogenous Matter in its Sewage for<br>the Benefit of the Nation - - - - -                                                                             | 48   |
| The Power of the Soil and Vegetation combined to Destroy Disease Germs,<br>and so to Prevent the Possibility of the Spread of Infective Disease in<br>consequence of Sewage Farming - - - - - | 54   |
| Discussion - - - - -                                                                                                                                                                          | 59   |
| Kritische und experimentelle studien über die hygienische Bedeutung des<br>Knufers - - - - -                                                                                                  | 63   |
| Discussion - - - - -                                                                                                                                                                          | 74   |
| The Action of Water on Lead - - - - -                                                                                                                                                         | 75   |
| Discussion - - - - -                                                                                                                                                                          | 82   |
| What is the Importance of Magnesia in Drinking Water? - - - - -                                                                                                                               | 82   |
| Discussion - - - - -                                                                                                                                                                          | 88   |
| The Importance of Periodical Analysis of the Air Breathed in Towns and<br>Cities - - - - -                                                                                                    | 88   |
| Discussion - - - - -                                                                                                                                                                          | 92   |

|                                                                    | Page  |
|--------------------------------------------------------------------|-------|
| On the Effects of the Respiration of Carbonic Acid on Man -        | - 93  |
| Discussion - - - - -                                               | - 98  |
| Meteorology in Relation to Hygiene - - - - -                       | - 98  |
| Discussion - - - - -                                               | - 104 |
| Influenza and the Weather of London - - - - -                      | - 106 |
| Discussion - - - - -                                               | - 110 |
| Recent Hygienic Improvements in the Manufacture of Bread -         | - 111 |
| Discussion - - - - -                                               | - 116 |
| Bromine and Iodine as Aërial Disinfectants: and on a New Method of |       |
| Applying them - - - - -                                            | - 117 |
| Discussion - - - - -                                               | - 119 |

## INDEX.



## INDEX.

| A.                                                                                                         |   | Page |                                                                                  |   | Page |
|------------------------------------------------------------------------------------------------------------|---|------|----------------------------------------------------------------------------------|---|------|
| Acid, carbonic, solvent of carbonate of lime in hard waters                                                | - | 77   | Barwise (S.), on lead pipes for conveyance of peaty water—and on Blackburn water | - | 88   |
| — — — source of, in air                                                                                    | - | 93   | Beddington, vital statistics of parish of                                        | - | 54   |
| — gas, carbonic, action of, on life                                                                        | - | 96   | Benefit accruing from Acts prohibiting black smoke                               | - | 28   |
| — sulphurous, in air                                                                                       | - | 22   | Berlin sewage farms                                                              | - | 59   |
| Action of water on lead. (J. H. Garrett)                                                                   | - | 75   | Blackburn water. (S. Barwise)                                                    | - | 88   |
| Acts prohibiting black smoke                                                                               | - | 28   | Black's fermented bread                                                          | - | 114  |
| Air-analysis Committee of Manchester Field Naturalists' Society                                            |   | 22   | Bouillon as affected by copper vessels                                           | - | 66   |
| — bacteria in, during fog                                                                                  | - | 17   | Boulton (Alderman) on sewage irrigation at Burslem                               | - | 63   |
| — biological examination of. (Sir C. Cameron)                                                              | - | 92   | Bread, Black's fermented                                                         | - | 114  |
| — effects of, re-breathed                                                                                  | - | 94   | — "Cyclone"                                                                      | - | 113  |
| — importance of biological examination of                                                                  | - | 92   | — Diastase,                                                                      | - | 115  |
| — of large towns; methods of analysis                                                                      | - | 22   | — diet. (Sir C. Cameron)                                                         | - | 117  |
| — of towns, removal of smoke and its use for disinfecting sewers. (Sheridan Delépine and Alfred B. Gomess) | - | 37   | — Frame-food                                                                     | - | 115  |
| — breathed in towns and cities, periodic analysis of. (K. N. Bahadhurji)                                   | - | 88   | — Germ                                                                           | - | 115  |
| — pollution                                                                                                | - | 8    | — Health                                                                         | - | 115  |
| — source of carbonic acid in                                                                               | - | 93   | — recent hygienic improvements in manufacture of. (John Goodfellow)              | - | 111  |
| — sulphurous acid in                                                                                       | - | 22   | Breads, malted                                                                   | - | 116  |
| — See atmosphere                                                                                           | - | 13   | Bread, Triticumina                                                               | - | 113  |
| "Amines," treatment of sewage                                                                              | - | 45   | — whole-meal, objections to                                                      | - | 112  |
| Analysis of air of large towns                                                                             | - | 22   | Bremner (G. H.)                                                                  | - | 62   |
| — of chimney gases                                                                                         | - | 31-4 | Brewery waters, lime and magnesia in                                             | - | 87   |
| — of deposit formed on plant-houses in London                                                              | - | 25   | Broad irrigation, utility of, for raw sewage                                     | - | 47   |
| — of deposit of fog constituents                                                                           | - | 14   | Bromine and Iodine as aerial disinfectants. (G. T. Moody and F. W. Streatfield)  | - | 117  |
| Appliances, mechanical, to improve hand-stoking                                                            | - | 35   | Brot, as affected by copper vessels—der Zusatz von Kupfer zu, verbieten          | - | 74   |
| Atmosphere, fog as an indicator of the relative purity of                                                  | - | 13   | Buchan (Alexander M. A., LL.D.). Meteorology in relation to Hygiene              | - | 98   |
| Atmospheres, characteristic smelling                                                                       | - | 90   | — — — on increased mortality in foggy weather                                    | - | 105  |
| Atmospheric conditions, general, which induce fog                                                          | - | 16   | — — — on outbreak of influenza at sea                                            | - | 111  |
|                                                                                                            |   |      | — — — and Mitchell (Sir Arthur, K.C.B.), Influenza and the weather of London     | - | 106  |
| <b>B.</b>                                                                                                  |   |      | <b>C.</b>                                                                        |   |      |
| Bacteria in air during fog                                                                                 | - | 17   | Cameron (Sir Charles), on the digestive organs and bread diet                    | - | 117  |
| Bahadhurji (K. N., M.D.). The importance of periodic analysis of the air breathed in towns and cities      | - | 88   | — — — on pipe water                                                              | - | 83   |

|                                                                                                                                                                              | Page |                                                                                                                                                                                 | Page |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Cameron (Sir Charles), on biological examination of air - -                                                                                                                  | 92   | Copper in bread. (Mr. Cassal)                                                                                                                                                   | 75   |
| — — Experiments of Dr. Hammond in United States -                                                                                                                            | 98   | Courtney (Mr.) on a hand-fired furnace - - -                                                                                                                                    | 37   |
| Carbonic acid, solvent of carbonate of lime in hard waters - -                                                                                                               | 77   | Cripps (Mr.). Metropolitan sewage system at Tottenham - -                                                                                                                       | 63   |
| — — effects of the respiration of. (Dr. Mareet) - -                                                                                                                          | 93   | Crops, sewage as food for growing -                                                                                                                                             | 47   |
| — — gas, action of, breathed in volumes producing insensibility or death - - -                                                                                               | 96   | Croup exhibiting a death-rate below its average during influenza epidemic - - -                                                                                                 | 109  |
| — — source of, in air -                                                                                                                                                      | 93   | Croydon, results of sanitation in -                                                                                                                                             | 50   |
| Carpenter (Alfred). Croydon sewage - - -                                                                                                                                     | 63   | — sewage. (A. Carpenter) -                                                                                                                                                      | 63   |
| — — Dnty of a locality to utilise the nitrogenous matter in its sewage for the benefit of the nation - - -                                                                   | 48   | “Cyclone” bread - -                                                                                                                                                             | 113  |
| — — Power of soil and vegetation combined to destroy disease germs, and so to prevent the possibility of the spread of enthetic disease in consequence of sewage farming - - | 54   | <b>D.</b>                                                                                                                                                                       |      |
| Cassal (Mr.). Copper in bread -                                                                                                                                              | 75   |                                                                                                                                                                                 |      |
| — — on suppression of adulteration - - -                                                                                                                                     | 117  | Danzig sewage farm - - -                                                                                                                                                        | 53   |
| Chalk, magnesia in water derived from the - - -                                                                                                                              | 83   | Delépine (Sheridan) and Gomess (Alfred B.), demonstration of the possibility of removing the smoke of fires from the air of towns and of using it for disinfecting sewers - - - | 37   |
| Chemical basis of epidemic disease                                                                                                                                           | 10   | Deposit formed on plant-houses in London, analysis of - - -                                                                                                                     | 25   |
| Chemical and physical processes employed in the treatment of sewage. (J. C. Thresh) -                                                                                        | 40   | Deposits, solid, on leaves of shrubs                                                                                                                                            | 25   |
| Chemical treatment of sewage, with special reference to the treatment of London sewage. (A. Dnpré)                                                                           | 39   | Determining cause of fog - -                                                                                                                                                    | 16   |
| Chimney gases, analysis of - -                                                                                                                                               | 31-4 | Diarrhœa, summer, in relation to temperature - - -                                                                                                                              | 101  |
| Cities. periodic analysis of the air breathed in - - -                                                                                                                       | 88   | Diastase bread - - -                                                                                                                                                            | 115  |
| Clark's process, effects of, on magnesian waters - - -                                                                                                                       | 86   | Diseases, parasitic, and sewage farms - - -                                                                                                                                     | 58   |
| Classification of physical and chemical processes resorted to in purification of sewage - -                                                                                  | 41   | Disinfectants (aërial), Bromine and Iodine as. (G. T. Moody and F. W. Streatfield) - - -                                                                                        | 117  |
| Climate of London - -                                                                                                                                                        | 99   | Disinfection and sterilization of sewage - - -                                                                                                                                  | 45   |
| Coal consumed in London -                                                                                                                                                    | 15   | Drysdale (C. R.) on sewage farming - - -                                                                                                                                        | 62   |
| Cohen (J. B.). Air Analysis Committee - - -                                                                                                                                  | 22   | Dnpré (A., F.R.S.), chemical treatment of sewage, with special reference to the treatment of the London sewage - - -                                                            | 39   |
| Colman (H. G.) on tin poisoning -                                                                                                                                            | 75   | Dust as a determining cause in the formation of fog - - -                                                                                                                       | 11   |
| Colouring matters of town fogs -                                                                                                                                             | 13   | — filtered out of air - - -                                                                                                                                                     | 12   |
| Combustion, conditions to be observed in order to effect complete - - -                                                                                                      | 29   | Dnty of a locality to utilise the nitrogenous matter in its sewage for the benefit of the nation. (Alfred Carpenter) - - -                                                      | 48   |
| — visible smoke the result of imperfect - - -                                                                                                                                | 29   | Dwellings, effects of ill-ventilated -                                                                                                                                          | 95   |
| Continuous oxidation of lead in water, air necessary for the -                                                                                                               | 79   | Dyer (Professor Thiselton), description of a fog deposit collected at Kew - - -                                                                                                 | 14   |
|                                                                                                                                                                              |      | — —, effect of fog on plants under glass - - -                                                                                                                                  | 17   |



|                                                                                                                              | Page |                                                                                                                                                                                 | Page |
|------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <b>E.</b>                                                                                                                    |      |                                                                                                                                                                                 |      |
| Edict, royal, against black smoke -                                                                                          | 28   | Fog, sulphur as an active producer of - - - -                                                                                                                                   | 11   |
| Effects of fog on health - -                                                                                                 | 10   | Fogs, town - - - -                                                                                                                                                              | 13   |
| — of fog on plants grown in the houses at Kew. (W. Watson) -                                                                 | 21   | — — — —, and their effects. (W. J. Russell, F.R.S.) - -                                                                                                                         | 11   |
| — of the respiration of carbonic acid on man. (W. Marcet) -                                                                  | 93   | Frame-food bread - - -                                                                                                                                                          | 115  |
| Emmerich (Dr.), inquiry as to the effects of the respiration of carbonic acid on man - -                                     | 97   | Frank (Johann Peter), on copper poisoning - - -                                                                                                                                 | 70   |
| Enteritis exhibiting a death-rate above its average during influenza epidemic - -                                            | 109  | Frankland (Percy F., F.R.S.), What is the importance of magnetism in drinking water? -                                                                                          | 82   |
| Epidemic disease rests on a chemical basis - - -                                                                             | 10   | Friedricks Blätter, 1887 (copper poisoning) - - -                                                                                                                               | 71   |
| Essig, as affected by copper vessels                                                                                         | 67   | Fuel, gaseous - - - -                                                                                                                                                           | 35   |
| Estimation of organic matter in air - - - -                                                                                  | 25   | Furnace, hand-fired. (Mr. Courtney) - - - -                                                                                                                                     | 37   |
| — of sulphurous acid in air -                                                                                                | 23   | <b>G.</b>                                                                                                                                                                       |      |
| <b>F.</b>                                                                                                                    |      | Garrett (J. H., M.D.). Action of water on lead - - -                                                                                                                            | 75   |
| Factories, means for preventing emission of smoke from. (A. E. Fletcher) - - -                                               | 28   | Gas, as a smokeless fuel - -                                                                                                                                                    | 36   |
| Färbung von Gemüseconserven, Verwendung von Kupfer zur -                                                                     | 74   | —, carbonic acid, action of, breathed in volumes producing insensibility or death -                                                                                             | 96   |
| Farms, Berlin sewage - - -                                                                                                   | 59   | —, consumed in London in dense fog, additional amount of -                                                                                                                      | 20   |
| Fett, as affected by copper vessels -                                                                                        | 66   | —, conversion of coal into, for fuel - - - -                                                                                                                                    | 35   |
| Filtration, chemical, of sewage -                                                                                            | 43   | Gases, analysis of chimney -                                                                                                                                                    | 31-4 |
| — through land, intermittent downward of sewage - -                                                                          | 46   | Gautier, on copper poisoning -                                                                                                                                                  | 65   |
| Fish, in lead tanks, paralysed -                                                                                             | 88   | Gemüseconserven (copper poisoning) - - -                                                                                                                                        | 65   |
| Fletcher (Alfred E.). Means at our disposal for preventing the emission of smoke from factories and from dwelling-houses - - | 28   | —, Verwendung von Kupfer zur Färbung von - - -                                                                                                                                  | 74   |
| Flowers at Kew, effect of fog on -                                                                                           | 21   | Germ bread - - - -                                                                                                                                                              | 115  |
| Fog - - - -                                                                                                                  | 20   | Germs of diseases, spread of, by winds - - - -                                                                                                                                  | 110  |
| — as an increaser of death-rate -                                                                                            | 100  | Gibbon (Dr.), on systematic chemical and bacteriological examination of air - - -                                                                                               | 93   |
| — as indicator of the relative purity of atmosphere - -                                                                      | 13   | Gilbert (Dr.), on nitrogen and chlorine in the rainfall of February 1891 - - -                                                                                                  | 110  |
| —, country - - - -                                                                                                           | 13   | Gilbert (J. H.), application of sewage to land - - -                                                                                                                            | 61   |
| —, determining cause of - -                                                                                                  | 16   | Gomess (Alfred B.) and Delépine (Sheridan), demonstration of the possibility of removing the smoke of fires from the air of towns and of using it for disinfecting sewers - - - | 37   |
| —, dust as a determining cause in the formation of - -                                                                       | 11   | Goodfellow (John). Copper sulphate in bread - - -                                                                                                                               | 75   |
| —, effects of, on health - -                                                                                                 | 16   |                                                                                                                                                                                 |      |
| —, effects of, on plants grown in the houses at Kew. (W. Watson) - - -                                                       | 21   |                                                                                                                                                                                 |      |
| —, high - - - -                                                                                                              | 16   |                                                                                                                                                                                 |      |
| —, the general atmospheric conditions inducing - - -                                                                         | 16   |                                                                                                                                                                                 |      |
| —, sea - - - -                                                                                                               | 13   |                                                                                                                                                                                 |      |
| —, snow during, analysis of -                                                                                                | 25   |                                                                                                                                                                                 |      |

|                                                                                   | Page |
|-----------------------------------------------------------------------------------|------|
| Goodfellow (John), Recent hygienic improvements in the manufacture of bread - - - | 111  |
| Granville (Dr. Mortimer), influenza - - -                                         | 111  |

## H.

|                                                                                        |     |
|----------------------------------------------------------------------------------------|-----|
| Hammond (Dr.). Experiments of, as to expired air. (Sir C. Cameron) - - -               | 98  |
| Hand-stoking, evils of - - -                                                           | 30  |
| —, mechanical appliances to avoid evils inherent in - - -                              | 35  |
| Hardness, permanent, in water - - -                                                    | 86  |
| Hart (Ernest) on fogs in connexion with asthma - - -                                   | 26  |
| Hartog (Philip), Air Analysis Committee of Manchester Field Naturalists' Society - - - | 22  |
| Haughton (Edward) on smoke abatement - - -                                             | 26  |
| — — — on sewage disposal - - -                                                         | 63  |
| Health bread - - -                                                                     | 115 |
| Heller und von Pleischl, Kupfermassenvergiftung - - -                                  | 71  |
| "High" fog - - -                                                                       | 16  |
| House smoke - - -                                                                      | 36  |
| Hygienic improvements in the manufacture of bread. (John Goodfellow) - - -             | 111 |
| Hygiene, meteorology in relation to. (Alexander Buchan) - - -                          | 98  |
| — Mosaic - - -                                                                         | 49  |

## I.

|                                                                                                                   |     |
|-------------------------------------------------------------------------------------------------------------------|-----|
| Ill-ventilated dwellings, effects of - - -                                                                        | 95  |
| Importance of magnesia in drinking water. (Percy F. Frankland) - - -                                              | 82  |
| Influenza, Dr. Mortimer Granville on — and the weather of London. (Sir A. Mitchell, K.C.B., and Dr. Buchan) - - - | 111 |
| — at sea. (The Hon. Rollo Russell) - - -                                                                          | 106 |
| — — — (Dr. Buchan) - - -                                                                                          | 111 |
| — complications of - - -                                                                                          | 110 |
| Iodine and bromine as aerial disinfectants. (G. T. Moody and F. W. Streatfield) - - -                             | 117 |

## J.

|                                         |    |
|-----------------------------------------|----|
| Jones (Colonel) on sewage farming - - - | 62 |
|-----------------------------------------|----|

## K.

|                                                                                                        | Page |
|--------------------------------------------------------------------------------------------------------|------|
| Kew, effects of fog on plants grown in the houses at. (W. Watson)                                      |      |
| Kritische und experimentelle Studien über die hygienische Bedeutung des Kupfers. (K. B. Lehmann) - - - | 63   |
| Kupfer, der Zusatz von, zu Brot verbieten - - -                                                        | 74   |
| — Verwendung von, zur Färbung von Gemüseconserven - - -                                                | 74   |
| Kupfergeschmack (in foods) - 65 et seq.                                                                |      |
| Kupfers, studien über die hygienische Bedeutung des. (K. B. Lehmann) - - -                             | 63   |
| Kupfervergiftung, chronische - - -                                                                     | 71   |
| Kupfervergiftungen, akute ökonomische - - -                                                            | 71   |

## L.

|                                                                                              |     |
|----------------------------------------------------------------------------------------------|-----|
| Landrisset, proportion of carbonic acid in the atmosphere - - -                              | 93  |
| Lead, action of water on. (J. H. Garrett) - - -                                              | 75  |
| — — — mainly due to presence of nitrate - - -                                                | 81  |
| — continuous, oxidation of, in water - - -                                                   | 79  |
| — effects on oxidation of, by coupling different metals - - -                                | 79  |
| — pipes for conveyance of peaty water. (S. Barwise) - - -                                    | 88  |
| Lehmann (Prof. K. B.), carbonic acid in atmosphere - - -                                     | 27  |
| — — —, effect of tin on the system - - -                                                     | 75  |
| — — —, Kritische und experimentelle Studien über die hygienische Bedeutung des Kupfers - - - | 63  |
| Leicester sewage - - -                                                                       | 59  |
| Lias, proportion of magnesia greater in the water from the - - -                             | 83  |
| Light, absorption of, by town fogs - - -                                                     | 18  |
| London, climate of - - -                                                                     | 99  |
| —, County Asylum sewage farm - - -                                                           | 52  |
| Longstaff (Dr. G. B.), meteorological curves and curves of deaths - - -                      | 104 |
| — — —, on the Registrar-General's returns - - -                                              | 110 |

## M.

|                                                                                                                                | Page   |
|--------------------------------------------------------------------------------------------------------------------------------|--------|
| Magnesia, importance of, in drinking water. (Percy F. Frankland) - - -                                                         | 82     |
| — in drinking water, analytical table - - -                                                                                    | 84-5   |
| Magnier de la Source (copper in foods) - - -                                                                                   | 65     |
| Maguire (W. R.) on the Dublin water supply - - -                                                                               | 82     |
| Malted breads - - -                                                                                                            | 116    |
| Manufacture of bread, recent hygienic improvements in. (John Goodfellow) - - -                                                 | 111    |
| Marcet (W., M.D., F.R.S.) On the effects of the respiration of carbonic acid on man - - -                                      | 93     |
| Mark (John) on smoke in Manchester - - -                                                                                       | 37     |
| Massachusetts, Report of State Board of Health of, on sewage -                                                                 | 59     |
| Means at our disposal for preventing the emission of smoke from factories and from dwelling-houses. (A. E. Fletcher) -         | 28     |
| Medical officers of health, extracts from reports of, <i>re</i> Croydon Sewage Farm - - -                                      | 56, 57 |
| Metals, effects of coupling different, on oxidation of lead -                                                                  | 79     |
| Meteorology in relation to hygiene. (Alexander Buchan) - - -                                                                   | 98     |
| Mitchell (Sir Arthur, K.C.B.) and Buchan (Dr.), Influenza and the weather of London - - -                                      | 106    |
| Moody (Gerald T.) and Streatfield, (F. W.), Bromine and Iodine as aerial disinfectants; and on a new method of applying them - | 117    |
| Mortality, whole annual of London, curves for - - -                                                                            | 99     |
| —, winter of London - - -                                                                                                      | 100    |
| Mosaic hygiene - - -                                                                                                           | 49     |
| Müntz, on nitrification - - -                                                                                                  | 46     |

## N.

|                                                        |     |
|--------------------------------------------------------|-----|
| Nasmyth (Dr.) on air of coal mines                     | 93  |
| Navier on copper poisoning -                           | 71  |
| Nitrate in water, oxidation of lead dependent on - - - | 81  |
| Nitrification of sewage - - -                          | 46  |
| North (W.) on meteorology in relation to hygiene - - - | 105 |

## O.

|                                                                      | Page   |
|----------------------------------------------------------------------|--------|
| Odling (Professor), effect of inhalation of pure carbonic acid gas - | 98     |
| — — —, analysis of air for sanitary purposes - - -                   | 92     |
| Oliver (Prof. F. W.), injuries by fog to vegetation - - -            | 26     |
| Organic matter in air, estimation of - - - - -                       | 25     |
| — matters in sewage, oxidation of - - - - -                          | 45     |
| Organisms found in sewage -                                          | 58     |
| Oxidation of lead in water - -                                       | 79, 81 |
| — — —, effects of coupling different metals on - - -                 | 79     |
| Oxidation of organic matters -                                       | 45     |
| —, result of primary action of water on lead - - -                   | 76     |

## P.

|                                                                                            |    |
|--------------------------------------------------------------------------------------------|----|
| Parasitic diseases and sewage farms                                                        | 53 |
| Perry (T. J.), radial method of distributing sewage - - -                                  | 62 |
| Pipe-water. (Sir C. Cameron) -                                                             | 88 |
| Plants, deleterious action of town fogs on - - - - -                                       | 17 |
| Plants grown in the houses at Kew, effects of fog on. (W. Watson)                          | 21 |
| Plants in active growth greatest sufferers from fog - - -                                  | 21 |
| Pleischl, von., und Heller "Kupfermassenvergiftung" - - -                                  | 71 |
| Possibility of getting rid of town fogs - - - - -                                          | 20 |
| — of the spread of enthetic disease in consequence of sewage farming. (Alfred Carpenter) - | 54 |
| Power of soil and vegetation combined to destroy disease germs. (Alfred Carpenter) - - -   | 54 |
| Precipitation of sewage - - -                                                              | 44 |
| Presidential address. (Sir Henry Roscoe) - - - - -                                         | 7  |
| Processes, chemical and physical, employed in the treatment of sewage. (J. C. Thresh) -    | 40 |
| Purley, letter from London County Asylum at - - - - -                                      | 5  |

## R.

|                                                                                                                       |    |
|-----------------------------------------------------------------------------------------------------------------------|----|
| Raffles (Hargreaves) on the collection and comparison of statistics relating to town fogs from large cities - - - - - | 27 |
|-----------------------------------------------------------------------------------------------------------------------|----|







## T.

|                                                                                           | Page |
|-------------------------------------------------------------------------------------------|------|
| Tatham (Dr.), Air Analysis Committee of the Manchester Field Naturalists' Society - -     | 22   |
| Teale (Pridgin) on domestic smoke                                                         | 27   |
| Temperature increasing rate of action of water on lead - -                                | 78   |
| Thresh (John C.), chemical and physical processes employed in the treatment of sewage - - | 40   |
| Thwaite (B. H.), cause of fogs in large towns - - -                                       | 27   |
| Tin, on poisoning by. (H. G. Colman.) - - -                                               | 75   |
| Town fogs - - -                                                                           | 13   |
| — — — and their effects. (W. J. Russell, F.R.S.) - -                                      | 11   |
| — — — power of absorption of light by - - -                                               | 18   |
| Towns, methods of analysis of air of large - - -                                          | 22   |
| — — — periodic analysis of the air breathed in - - -                                      | 88   |
| Treatment of sewage, electrical -                                                         | 44   |
| Tripe (Dr.), fog as an increaser of mortality - - -                                       | 26   |
| — — — on meteorology in relation to hygiene - - -                                         | 105  |
| — — — on influenza - - -                                                                  | 111  |
| Triticumina bread - - -                                                                   | 113  |

## U.

|                                                                            |    |
|----------------------------------------------------------------------------|----|
| Utilization of sewage as food for growing crops, or broad irrigation - - - | 47 |
|----------------------------------------------------------------------------|----|

## W.

|                                                     |    |
|-----------------------------------------------------|----|
| Wallington, vital statistics of the parish of - - - | 55 |
|-----------------------------------------------------|----|

|                                                                              | Page   |
|------------------------------------------------------------------------------|--------|
| Warrington, on nitrification -                                               | 46     |
| Water acid, action of, on lead -                                             | 76     |
| — action of, on lead. (J. H. Garrett.) - - -                                 | 75     |
| — faintly acid, action of, on lead                                           | 80     |
| — slightly alkaline, action of, on lead - - -                                | 80     |
| — strongly acid, action of, on lead - - -                                    | 80     |
| — faintly alkaline or neutral, action of, on lead - - -                      | 76     |
| — strongly alkaline, action on lead - - -                                    | 76     |
| — from the lias, magnesia in -                                               | 83     |
| — importance of magnesia in. (Percy F. Frankland.) - -                       | 82     |
| — lead pipes for conveyance of peaty. (S. Barwise.) - -                      | 88     |
| — magnesia in drinking, analytical table - - -                               | 84-5   |
| — neutral or faintly alkaline, action of, on lead - - -                      | 76     |
| — peaty, action on lead -                                                    | 81, 88 |
| — shallow-well, permanent hardness of - - -                                  | 86     |
| Waters, brewery - - -                                                        | 87     |
| — calcareous, contain little magnesia - - -                                  | 83     |
| — Clark's process on magnesian                                               | 86     |
| Watson (W.), Effects of fog on plants grown in the houses at Kew - - -       | 21     |
| Weather of London and influenza. (Sir Arthur Mitchell and Dr. Buchan.) - - - | 106    |
| Wein, as affected by copper vessels                                          | 67     |
| Whole-meal bread, objections to -                                            | 112    |
| Williams (Dr. C. Theodore) on London fogs - - -                              | 26     |
| Winds as a means of spreading germs of diseases - - -                        | 110    |
| Winter mortality of London -                                                 | 100    |



## VOLUME VI.

## ARCHITECTURE IN RELATION TO HYGIENE.

## Table of Contents and Index.

## TABLE OF CONTENTS.

|                                                                                                | Page |
|------------------------------------------------------------------------------------------------|------|
| Presidential Address - - - - -                                                                 | 7    |
| On Open Spaces - - - - -                                                                       | 11   |
| Discussion - - - - -                                                                           | 16   |
| Hygienische Grundsätze für die Erweiterung und den inneren Ausbau der Städte - - - - -         | 17   |
| Discussion - - - - -                                                                           | 31   |
| Hygiène des Groupes d'habitations à Bon Marché - - - - -                                       | 32   |
| Discussion - - - - -                                                                           | 33   |
| The Control of the Construction of Dwelling Houses - - - - -                                   | 33   |
| Discussion - - - - -                                                                           | 39   |
| On furnishing Steam from Central Districts for Heating and Power in Towns and Cities - - - - - | 43   |
| Discussion - - - - -                                                                           | 45   |
| Sur la Constitution hygiénique des murs d'habitation - - - - -                                 | 45   |
| Discussion - - - - -                                                                           | 50   |
| Sur l'Emploie des Fondations sur Pilotis pour les Habitations - - - - -                        | 51   |
| The Sanitation of Theatres - - - - -                                                           | 56   |
| Diagrams illustrative of the Sanitation of Theatres - - - - -                                  | 64   |
| Discussion - - - - -                                                                           | 70   |
| Some Insanitary Superstitions in House Building - - - - -                                      | 72   |
| Discussion - - - - -                                                                           | 76   |
| Four-inch Drains <i>versus</i> Six-inch Drains - - - - -                                       | 78   |
| Étude sur les principales causes d'insalubrité des Habitations Ouvrières Parisiennes - - - - - | 81   |
| The Insanitary Conditions of Workrooms, Bakehouses, &c. in Paris - - - - -                     | 88   |
| Common Lodging Houses - - - - -                                                                | 90   |
| Cottage Homes for the Industrial Classes - - - - -                                             | 96   |
| Block Dwellings for the Industrial Classes - - - - -                                           | 102  |

|                                                                  | Page |
|------------------------------------------------------------------|------|
| Two and three-storeyed Tenements for the People - - - - -        | 114  |
| Discussion - - - - -                                             | 117  |
| English Isolation Hospitals - - - - -                            | 123  |
| The Heathcote Hospital, Leamington - - - - -                     | 127  |
| Local Isolation Hospitals as opposed to a Central Hospital - - - | 132  |
| Discussion - - - - -                                             | 137  |
| The Arrangement and Construction of Asylums - - - - -            | 139  |
| Construction and Arrangement of Asylums - - - - -                | 145  |
| Discussion - - - - -                                             | 154  |

## INDEX.





## INDEX.

| A.                                                                                                     | Page     | B.                                                                                                | Page       |
|--------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------|------------|
| Address of President (Sir Arthur Blomfield) - - -                                                      | 7        | Bakehouses Regulation Act, provisions of - - -                                                    | 89         |
| Air, provisions for supply of fresh, and of light to dwelling rooms -                                  | 36       | —, workrooms, &c., insanitary condition of, in Paris. (F. Bouhon.) - - -                          | 88         |
| Aitchison (Professor), remarks on the control of the construction of dwelling houses - -               | 39       | Beekwith (H. L.), remarks on blocks of dwellings - -                                              | 118        |
| Allan (Dr.), remarks on sanitation of theatres - - -                                                   | 70       | Blair (Mr.), remarks on construction and arrangement of asylums                                   | 155        |
| Amendments to Metropolitan Buildings Act, 1878 and 1890 - -                                            | 34       | Blashill (Thomas), Control of the construction of dwelling-houses -                               | 33         |
| Architecture in relation to hygiene. (Sir Arthur W. Blomfield.) -                                      | 7        | — — remarks on hygienische Grundsätze für die Erweiterung und den inneren Ausbau der Städte - - - | 31         |
| Artizans' dwellings, London County Council's regulations for - -                                       | 37       | — — remarks on two and three-storeyed tenements for the people - - -                              | 121        |
| — — model byelaws regulating building of - - -                                                         | 37       | Block dwellings - - -                                                                             | 103        |
| — — Parisian, principal causes of insanitary state of. (Émile Cacheux.) - - -                          | 81       | Blomfield (Sir Arthur), on a resolution with regard to the education of architects - -            | 156        |
| Assistance publique, action de l', relative aux habitations ouvrières Parisiennes - - -                | 84       | — — Presidential address -                                                                        | 7          |
| Asylums, arrangement and construction of. (Richard Green.) -                                           | 139      | — — remarks on some insanitary superstitions in house-building - - -                              | 77         |
| — arrangement of wards in -                                                                            | 147      | Bond (E.), remarks on two and three storeyed tenements for the people - - -                       | 117        |
| — classification of patients in -                                                                      | 147      | — — remarks on the control of the construction of dwelling-houses - - -                           | 40         |
| — construction and arrangement of. (G. T. Hine.) - -                                                   | 145      | Bouhon (F.), remarks on sanitation of theatres - - -                                              | 71         |
| — heating of apartments in - 148, 152                                                                  | 148, 152 | — — The insanitary conditions of workrooms, bakehouses, &c., in Paris - - -                       | 88         |
| — situation of administrative department in - - -                                                      | 150      | Browne (Lennox), remarks in reply to discussion on sanitation of theatres - - -                   | 72         |
| Atha (Mr. Councillor), remarks on two and three storeyed tenements for the people - - -                | 121      | — — Sanitation of theatres -                                                                      | 56         |
| — — remarks on local isolation hospitals as opposed to a central hospital - - -                        | 138      | Brydges (E. T.), remarks on the control of the construction of dwelling-houses - - -              | 42         |
| — — remarks on furnishing steam from central districts for heating and power in towns and cities - - - | 45       | Buchan (W. P.), remarks on paper sur la constitution hygiénique des murs d'habitation - -         | 51         |
| Atmosphere, cause of hygrometric changes in - - -                                                      | 46       | Buildings Act, Metropolitan, 1855                                                                 | 34, 35, 36 |
| — cause of mechanical changes in - - -                                                                 | 46       |                                                                                                   |            |
| Ausbau der Städte, hygienische Grundsätze für die Erweiterung und den inneren. (J. Stübben.)           | 17       |                                                                                                   |            |

|                                                                                                                             | Page |
|-----------------------------------------------------------------------------------------------------------------------------|------|
| Building, structural conditions of a habitable, necessary to health -                                                       | 33   |
| Burial Grounds Act, Disused, of 1884 - - -                                                                                  | 13   |
| Burroughs (S. M.), On furnishing steam from central districts for heating and power in towns and cities - - -               | 43   |
| — — — remarks on two and three storeyed tenements for the people - - -                                                      | 118  |
| — — — remarks in reply to discussion on furnishing steam from central districts for heating and power in towns and cities - | 45   |

## C.

|                                                                                                             |     |
|-------------------------------------------------------------------------------------------------------------|-----|
| Caehenx (Émile), Étude sur les principales causes d'insalubrité des habitations ouvrières parisiennes - - - | 81  |
| Cameron (Spottiswoode), remarks on paper sur la constitution hygiénique des murs d'habitation - - -         | 50  |
| Casings, insanitary superstitions -                                                                         | 73  |
| Chemin de fer, action des compagnies de, relative aux habitations ouvrières parisiennes -                   | 84  |
| Cistern, the, an insanitary superstition - - -                                                              | 75  |
| Closets, situation of, in theatres -                                                                        | 62  |
| Collins (H. H.), remarks in discussion on paper sur la constitution hygiénique des murs d'habitation - - -  | 51  |
| — — — remarks in discussion on some insanitary superstitions in house-building - - -                        | 76  |
| — — — remarks in discussion on two and three storeyed tenements for the people - - -                        | 119 |
| — — — remarks in discussion on open spaces - - -                                                            | 16  |
| — — — remarks in discussion on the control of the construction of dwelling-houses - - -                     | 42  |
| Curtains, an insanitary superstition - - -                                                                  | 74  |
| Cuypers (P. J. H.), Sur l'emploi des fondations dur sur pilotis pour les habitations - - -                  | 51  |

## D.

|                                                                                                                  | Page  |
|------------------------------------------------------------------------------------------------------------------|-------|
| Day (Alderman Ernest), remarks in discussion on local isolation hospitals as opposed to a central hospital - - - | 138   |
| Death-rate, cause of decrease in, in United Kingdom - - -                                                        | 12    |
| Diagrams illustrative of the sanitation of theatres. (E. Turner.) -                                              | 65-69 |
| Diseases calling for isolation -                                                                                 | 124   |
| Dolan (Dr.), remarks in discussion on sanitation of theatres - - -                                               | 71    |
| Drainage of soil that is naturally damp, model byelaws regulating -                                              | 34    |
| Drains, advantages of four-inch -                                                                                | 79    |
| —, four-inch <i>versus</i> six-inch. (G. M. Lawford.) - - -                                                      | 78    |
| —, objections to six-inch -                                                                                      | 80    |
| Dwelling houses, control of the construction of. (Thomas Blashill.) - - -                                        | 33    |
| Dwellings, block, for the industrial classes. (John F. J. Sykes.) -                                              | 102   |

## E.

|                                                                                                |        |
|------------------------------------------------------------------------------------------------|--------|
| Elliott (W. N.), remarks in discussion on the control of the construction of dwelling-houses - | 42     |
| Emden (Walter), remarks in discussion on sanitation of theatres -                              | 71     |
| Épargne, action des caisses d', de Paris relative aux habitations ouvrières parisiennes - - -  | 84     |
| Erweiterung der Städte, hygienische Grundsätze für die. (J. Stübben.) - - -                    | 17     |
| — und der innere Ausbau der Städte, allgemeine Aufgabe. (J. Stübben.) - - -                    | 17, 18 |
| — — — Amtliche Maassnahmen. (J. Stübben.) - - -                                                | 17, 24 |
| — — — Gesetzgebung. (J. Stübben.) - - -                                                        | 18, 30 |
| — — —, hygienische Erfordernisse. (J. Stübben.) - - -                                          | 17, 21 |

## F.

|                                                                                                           |     |
|-----------------------------------------------------------------------------------------------------------|-----|
| Fenger (Professor), remarks on the presidential address - - -                                             | 11  |
| Few (Rev. C. E.), Local isolation hospitals as opposed to a central hospital - - -                        | 132 |
| — — —, remarks in reply to discussion on local isolation hospitals as opposed to a central hospital - - - | 139 |

|                                                                                                                                        | Page |                                                                                                      | Page   |
|----------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------|--------|
| Field (Rogers), remarks in discussion on paper on hygienische Grundsätze für die Erweiterung und den inneren Ausbau der Städte - - - - | 31   | Hall (Edwin T.), remarks in discussion on the control of the construction of dwelling-houses -       | 41     |
| — — —, remarks in discussion on paper on open spaces - -                                                                               | 16   | Hannam (Councillor), remarks in discussion on some insanitary superstitions in house-building -      | 77     |
| — — —, remarks in discussion on construction and arrangement of asylums - - - -                                                        | 154  | — — — remarks in discussion on two and three storeyed tenements for the people - - -                 | 118    |
| Fire-watch at theatres - -                                                                                                             | 61   | Health Acts, Public, Amendment Act, 1890, provisions of - -                                          | 114    |
| Fletcher (Banister), remarks in discussion on papers on construction and arrangement of asylums                                        | 154  | —, Public, Act - - - 33, 34, 95                                                                      |        |
| Fosbrooke (Dr.), remarks in discussion on local isolation hospitals as opposed to a central hospital - - - -                           | 137  | —, Public, Amendment Act, with respect to building legislation - - - -                               | 42     |
| <b>G.</b>                                                                                                                              |      | Heathcote Hospital, Leamington, drainage and water supply -                                          | 131    |
| Gardens, Metropolitan, Public, Association, work of - -                                                                                | 13   | — — —, Leamington. (Keith D. Young.) - - - -                                                         | 127    |
| —, public, necessity for - -                                                                                                           | 22   | — — —, Leamington, Ward block - - - -                                                                | 130    |
| Gely (André) - - - -                                                                                                                   | 88   | Heating, advantages of system for furnishing steam from central districts for. in towns and cities - | 44     |
| Godwin (E. W.), on dress in its relation to health and climate -                                                                       | 9    | — in towns and cities, on furnishing steam from central districts for. (S. M. Burroughs.) -          | 43     |
| Gould (Engel R. L.), remarks in discussion on open spaces -                                                                            | 16   | Hine (G. T.), Construction and arrangement of asylums - -                                            | 145    |
| Greene (Dr.), remarks in reply to discussion on construction and arrangement of asylums - -                                            | 156  | — — —, remarks in reply to discussion on construction and arrangement of asylums - -                 | 156    |
| — — —, The arrangement and construction of asylums - -                                                                                 | 139  | Holly system of supplying steam to towns, &c. - - - -                                                | 43, 44 |
| Grimshaw (Dr.), remarks in discussion on two and three storeyed tenements for the people - -                                           | 119  | Holmes (Mrs. Basil), On open spaces - - - -                                                          | 11     |
| Ground-air, remarks on, by Edwin T. Hall - - - -                                                                                       | 41   | Homes, cottage, for the industrial classes. (R. Plumbe.) - -                                         | 96     |
| Gruber (Professor T. v.), remarks in discussion on paper sur la constitution hygiénique des murs d'habitation - - -                    | 50   | Hooper (Mr.), remarks on block buildings - - - -                                                     | 118    |
| <b>H.</b>                                                                                                                              |      | Hospital, cost of a central - -                                                                      | 135    |
| Habitations à bon marché, hygiène des groupes d'. (Charles Lucas.)                                                                     | 32   | —, estimate of cost of portable -                                                                    | 136    |
| — à bon marché, la société française des - - - -                                                                                       | 87   | Hospitals, English isolation. (R. Thorne Thorue.) - - -                                              | 123    |
| —, l'emploi des fondations sur pilotis pour les. (P.J.H. Cuypers.)                                                                     | 51   | —, extent of provision to be made for isolation - - -                                                | 124    |
| — ouvrières de Passy-Auteuil -                                                                                                         | 86   | —, isolation, allotment of bed-space - - - -                                                         | 126    |
| — ouvrières parisiennes. (É. Cacheux.) - - - -                                                                                         | 81   | —, —, buildings - - - -                                                                              | 125    |
|                                                                                                                                        |      | —, local isolation, as opposed to a central hospital. (C. E. Few.)                                   | 132    |
|                                                                                                                                        |      | —, portable - - - -                                                                                  | 133    |
|                                                                                                                                        |      | —, site of isolation - - -                                                                           | 125    |
|                                                                                                                                        |      | Hospital, the Heathcote, Leamington. (Keith D. Young.) - -                                           | 127    |



|                                                                                       | Page |
|---------------------------------------------------------------------------------------|------|
| House-building, insanitary superstitions in. (H. H. Statham.) -                       | 72   |
| Houses, isolated, of two storeys only, the commercial possibility of, in London - - - | 116  |
| Hygiene, architecture in relation to. (Sir Arthur W. Blomfield.) -                    | 7    |
| Hygiène des groupes d'habitations à bon marché. (Charles Lueas.)                      | 32   |

## I.

|                                                                               |     |
|-------------------------------------------------------------------------------|-----|
| Industrial classes, cottage homes for. (R. Plumble.) - -                      | 96  |
| Industriels, action des, relative aux habitations ouvrières parisiennes - - - | 84  |
| Isolation, diseases calling for -                                             | 124 |

## J.

|                                                                                                             |     |
|-------------------------------------------------------------------------------------------------------------|-----|
| Jeaffreson (Mr.), remarks in discussion on local isolation hospitals as opposed to a central hospital - - - | 137 |
| Johnson (B.), remarks in discussion on open spaces - -                                                      | 16  |
| Jones (Rev. Harry), remarks in discussion on the control of the construction of dwelling-houses -           | 41  |

## L.

|                                                                                                    |    |
|----------------------------------------------------------------------------------------------------|----|
| Lawford (G. M.), Four-inch drains versus six inch drains . -                                       | 78 |
| Light, provisions for the supply of fresh air and, to dwelling rooms -                             | 36 |
| Lodging-houses Act, Common -                                                                       | 91 |
| Lodging-houses, common, accommodation of - - -                                                     | 94 |
| — — —; common, chief conditions under which allowed to be carried on - - -                         | 93 |
| — — —, common, inspection of -                                                                     | 93 |
| — — —, common. (P. Gordon Smith.) - - -                                                            | 90 |
| — — —, common, separation of sexes in - - -                                                        | 96 |
| — — —, common, table showing extent to which the system prevails in certain provincial towns - - - | 92 |
| — — —, common, ventilation of -                                                                    | 95 |
| — — —, warming of - - -                                                                            | 95 |
| London 30 years ago and to-day -                                                                   | 48 |

|                                                                                                  | Page |
|--------------------------------------------------------------------------------------------------|------|
| Longstaff (G. B.), remarks in discussion on the control of the construction of dwelling-houses - | 39   |
| Lueas (Charles), Hygiène des groupes d'habitations à bon marché - - -                            | 32   |
| — — —, on presidential address -                                                                 | 11   |

## M.

|                                                                                      |          |
|--------------------------------------------------------------------------------------|----------|
| Maekison (W. M.), remarks in discussion on construction and arrangement of asylums - | 155, 156 |
| Manchester building byelaws, provisions of - - -                                     | 35       |
| Meath, Earl of, paper on open spaces read by - - -                                   | 11       |
| Metropolitan building byelaws, requirements of - - -                                 | 35       |
| Mortality, average rate of, in London - - -                                          | 81       |
| — — — average rate of, in Paris -                                                    | 81       |
| Murs d'habitation, sur la constitution hygiénique des (Émile Trélat.) - - -          | 45       |

## N.

|                                                                                                           |     |
|-----------------------------------------------------------------------------------------------------------|-----|
| Nasmyth (Dr.), remarks in discussion on local isolation hospitals as opposed to a central hospital - - -  | 137 |
| Nevill (Ralph), remarks in discussion on paper sur la constitution hygiénique des murs d'habitation - - - | 50  |
| — — — remarks in discussion on some insanitary superstitions in house-building - - -                      | 76  |
| — — —, — — — on two and three-storeyed tenements for the people                                           | 117 |
| Newsholme (Dr.), on the vital statistics of block dwellings -                                             | 112 |
| Noel Park, account of estate of -                                                                         | 98  |

## O.

|                                                      |    |
|------------------------------------------------------|----|
| Open Spaces Acts of 1877, 1881, 1887, and 1890 - - - | 13 |
|------------------------------------------------------|----|

## P.

|                                                                                                |     |
|------------------------------------------------------------------------------------------------|-----|
| Pain (Coard S.), remarks in discussion on the control of the construction of dwelling-houses - | 39  |
| "Pavilion" principle in building asylums - - -                                                 | 146 |



|                                                                                                                                | Page |                                                                                                                            | Page |
|--------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------|------|
| Philanthropic, action de la, relative aux habitations ouvrières parisiennes - - -                                              | 85   | Seddon (J. P.), remarks in discussion on two and three storeyed tenements for the people -                                 | 118  |
| Pilotis, l'emploi des fondations sur, pour les habitations. (P. J. H. Cuypers.) - - -                                          | 51   | "Skirtings," an insanitary superstition - - -                                                                              | 73   |
| Plumbe (Rowland), Cottage homes for the industrial classes - -                                                                 | 96   | Slater (John), remarks in discussion on hygienische Grundsätze für die Erweiterung und den inneren Ausban der Städte - - - | 31   |
| — — — remarks in discussion on two and three storeyed tenements for the people - - -                                           | 122  | Smith (P. Gordon), Common lodging houses - - -                                                                             | 90   |
| Population, annual increase of, in large European towns - -                                                                    | 19   | — — — remarks in discussion on two and three-storeyed tenements for the people - -                                         | 121  |
| Powers Act, the London Council, General, provisions of - - -                                                                   | 35   | Smith (Noble), remarks in discussion on two and three-storeyed tenements for the people -                                  | 117  |
| Prendergast (Colonel), remarks in discussion on some insanitary superstitions in house-building -                              | 76   | Smith (Wilberforce), remarks in discussion on some insanitary superstitions in house-building -                            | 77   |
| Presidential address. (Sir Arthur W. Blomfield.) - - -                                                                         | 7    | Sociétés Savantes, action des, relative aux habitations ouvrières parisiennes - - -                                        | 84   |
| <b>R.</b>                                                                                                                      |      | Spaces, model byelaws regulating size of open - - -                                                                        | 36   |
| Rawlinson (Sir Robert), remarks in discussion on construction and arrangement of asylums - -                                   | 155  | — — — measures for securing open -                                                                                         | 13   |
| Refuse, requirements of the model byelaws for the removal of, from houses - - -                                                | 37   | — — — open. (Mrs. Basil Holmes.)                                                                                           | 11   |
| — — — structural measures necessary for the removal of, from houses                                                            | 37   | Speculation, action de la, relative aux habitations ouvrières parisiennes - - -                                            | 84   |
| Richardson (Dr. B. W.), on sanitary reform in relation to the fine arts - - -                                                  | 10   | Städte, hygienische Grundsätze für die Erweiterung und den inneren Ausban der. (J. Stübgen.) -                             | 17   |
| Robinson (R. A.), remarks in discussion on furnishing steam from central districts for heating and power in towns and cities - | 45   | Statham (H. H.), remarks in discussion on hygiene des groupes d'habitations à bon marché -                                 | 32   |
| Ross (J. Maxwell), remarks in discussion on local isolation hospitals as opposed to a central hospital - - -                   | 138  | — — — remarks in discussion on paper sur la constitution hygiénique des murs d'habitation - - -                            | 51   |
| <b>S.</b>                                                                                                                      |      | — — — remarks in discussion on construction and arrangement of asylums - - -                                               | 155  |
| Saunders (Dr.), remarks in discussion on construction and arrangement of asylums - -                                           | 155  | — — — remarks in discussion on the control of the construction of dwelling-houses - - -                                    | 41   |
| Seddon (Col.), remarks in discussion on some insanitary superstitions in house-building -                                      | 77   | — — — in reply to discussion on some insanitary superstitions in house-building - - -                                      | 78   |
| Seddon (J. P.), remarks in discussion on H. H. Statham's paper on some insanitary superstitions in house-building - -          | 76   | — — — Some insanitary superstitions in house building -                                                                    | 72   |
|                                                                                                                                |      | Steam power, furnishing of, from central districts for heating in towns and cities. (S. M. Burroughs.) - - -               | 43   |

|                                                                                              | Page |
|----------------------------------------------------------------------------------------------|------|
| Stübßen (J.), Hygienische Grundsätze für die Erweiterung und den inneren Ausbau der Städte - | 17   |
| Suburban villages - - -                                                                      | 104  |
| Sykes (Dr.), remarks in discussion on two and three storeyed tenements for the people - -    | 123  |
| — — — remarks in discussion on the control of the construction of dwelling-houses - -        | 42   |
| — — — resolution referring to education of architects - -                                    | 156  |
| — — — Block dwellings for the industrial classes - - -                                       | 102  |
| — — — remarks in discussion on open spaces - - -                                             | 16   |

## T.

|                                                                                                                           |     |
|---------------------------------------------------------------------------------------------------------------------------|-----|
| Techner (Ludwig), remarks in discussion on hygienische Grundsätze für die Erweiterung und den inneren Ausbau der Städte - | 31  |
| Tenement houses - - -                                                                                                     | 103 |
| Tenements, two and three-storeyed, for the people. (Locke Worthington.) - - -                                             | 114 |
| Theatres, accommodation of - -                                                                                            | 61  |
| — — — closets in - - -                                                                                                    | 62  |
| — — — Diagrams illustrative of the sanitation of. (Ernest Turner.) -                                                      | 64  |
| — — — heating of - - -                                                                                                    | 64  |
| — — — lighting of - - -                                                                                                   | 63  |
| — — — Sanitation of. (Lennox Browne.) - - -                                                                               | 56  |
| — — — situation of - - -                                                                                                  | 59  |
| Thorne Thorne (R.), English isolation hospitals - -                                                                       | 123 |
| — — — remarks in discussion on local isolation hospitals as opposed to a central hospital -                               | 139 |

|                                                                        |    |
|------------------------------------------------------------------------|----|
| Trélat (Émile), remarks in reply -                                     | 51 |
| — — — Sur la constitution hygiénique des murs d'habitation - - -       | 45 |
| Turner (Ernest), Diagrams illustrative of the sanitation of theatres - | 64 |

## V.

|                                              |    |
|----------------------------------------------|----|
| Village, model cottage, description of - - - | 97 |
|----------------------------------------------|----|

## W.

|                                                                                                              |     |
|--------------------------------------------------------------------------------------------------------------|-----|
| Wakefield (T. F.), remarks in discussion on local isolation hospitals as opposed to a central hospital - - - | 137 |
| Walls, ability of, to protect interiors from atmospheric changes - -                                         | 46  |
| — — — influence of, on the indoor atmosphere - - -                                                           | 48  |
| Water and light, necessity for supply of - - -                                                               | 23  |
| White (Wm.), remarks in discussion on paper on hygiène des groupes d'habitations à bon marché - - -          | 32  |
| Workrooms, insanitary condition of, in Paris. (F. Bonhon.) -                                                 | 83  |
| Worthington (Locke), Two and three-storeyed tenements for the people - - -                                   | 114 |

## Y.

|                                                          |     |
|----------------------------------------------------------|-----|
| Young (Keith D.), The Heathcote Hospital, Leamington - - | 127 |
|----------------------------------------------------------|-----|



## VOLUME VII.

## ENGINEERING IN RELATION TO HYGIENE.

## Table of Contents and Index.

## TABLE OF CONTENTS.

|                                                                                                                                                      | Page. |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Presidential Address                                                                                                                                 | 7     |
| Sewage Disposal with reference to River Pollution and Water Supply                                                                                   | 11    |
| L'Assainissement des Villes en Italie                                                                                                                | 17    |
| Sanitation in India                                                                                                                                  | 18    |
| French and English Systems of Sewerage                                                                                                               | 24    |
| The Removal of Sewage after leaving Buildings                                                                                                        | 27    |
| The Sanitation of a Mining Settlement                                                                                                                | 31    |
| Discussion                                                                                                                                           | 34    |
| Sewer Ventilation                                                                                                                                    | 45    |
| Sewer and Drain Ventilation                                                                                                                          | 47    |
| The better Ventilation of Town Sewers                                                                                                                | 52    |
| Discussion                                                                                                                                           | 58    |
| Assainissement des Villes : Traitement des Eaux d'Égout par les Procédés Agricoles                                                                   | 65    |
| On the Application of an Interecepting Reservoir (of the type of Mouras's fosse) and of a Peat Filter for Sewage, to the Separate System of Sewerage | 74    |
| Les Procédés d'Assainissement des Villes                                                                                                             | 84    |
| The Wolverhampton Sewerage Works                                                                                                                     | 89    |
| Die Kanalisation der Stadt Berlin                                                                                                                    | 91    |
| Water Supply                                                                                                                                         | 100   |
| De la Distribution dans les Villes de deux eaux de qualité différente par des Canalisations distinctes                                               | 102   |
| The Separate Water Supply for Domestic and for Sanitary Purposes at Southampton                                                                      | 108   |
| Discussion                                                                                                                                           | 111   |
| L'Hygiène des Chemins de Fer et des Voyageurs                                                                                                        | 119   |
| The Revolving Purifier for treatment of potable waters by means of metallic Iron                                                                     | 129   |
| The Purification of Water by Rapid Filtration                                                                                                        | 133   |
| Über die Wirkung der Electricität auf die suspendirten und gelösten Stoffe der Abwasser                                                              | 138   |

|                                                                                                                                              | Page |
|----------------------------------------------------------------------------------------------------------------------------------------------|------|
| The Water Supply of Maritime Towns - - - - -                                                                                                 | 140  |
| On Maps showing the Area of Chalk available for Water-supply in the Central<br>and Eastern parts of the London Basin - - - - -               | 144  |
| The Influence of Ground Water upon Health - - - - -                                                                                          | 145  |
| Drainage and Irrigation of Land in their Relation to Health - - - - -                                                                        | 149  |
| Diseussion - - - - -                                                                                                                         | 155  |
| Projets pour l'alimentation en eau potable d'une grande partie de la France<br>au moyen de l'eau des lacs de Neuchâtel et du Léman - - - - - | 160  |
| Eindringen von Unreinigkeiten in Druckwasserleitungen - - - - -                                                                              | 167  |
| The present state of our knowledge concerning the Self-purification of<br>Rivers - - - - -                                                   | 170  |
| Abkühlung des Wassers durch Anlage von Kühlsehäeten - - - - -                                                                                | 175  |
| Diseussion - - - - -                                                                                                                         | 180  |
| The Refuse Destructor - - - - -                                                                                                              | 188  |
| On the Cleansing of the Streets and the Removal of Household Refuse in<br>German Towns - - - - -                                             | 203  |
| Experiments in the Burning of House Refuse - - - - -                                                                                         | 205  |
| Refuse Burning - - - - -                                                                                                                     | 210  |
| How best to dispose of the Refuse of large Towns - - - - -                                                                                   | 218  |
| Diseussion - - - - -                                                                                                                         | 219  |
| Municipal Engineering - - - - -                                                                                                              | 223  |
| Diseussion - - - - -                                                                                                                         | 227  |
| Die Typhus-Epidemie in Altona 1891 und das filtrirte Flusswasser - - - - -                                                                   | 229  |
| The Water Supply of India - - - - -                                                                                                          | 242  |
| Diseussion - - - - -                                                                                                                         | 250  |
| Aperçus sur l'Assainissement du Sous-sol des Villes - - - - -                                                                                | 252  |
| Diseussion - - - - -                                                                                                                         | 260  |

## INDEX.





## INDEX.

|                                                                                                                                                                | Page |                                                                                                        | Page |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------|------|
| <b>A.</b>                                                                                                                                                      |      | Bechmann, Mr., remarks in discussion on French and English systems of sewerage - -                     | 35   |
| Abkühlung des Wassers durch Anlage von Kühlschächten (Professor A. Oelwein) - -                                                                                | 175  | —— ———, remarks in reply - -                                                                           | 117  |
| Alliott (Mr.), remarks in discussion on The refuse destructor - -                                                                                              | 221  | "Bechive" refuse destructor, description of - - -                                                      | 195  |
| Altona, Die typhus-epidemie in, 1891, und das filtrirte Flusswasser (W. Kümmel) - - -                                                                          | 229  | Bengal Presidency, supply of river-water in the - - -                                                  | 245  |
| Anderson (J. T. Noble), remarks in discussion on The sanitation of a mining settlement - -                                                                     | 36   | —— ———, supply of tank or pond water in the - - -                                                      | 245  |
| Anderson (Mr.), remarks in discussion on Abkühlung des Wassers durch Anlage von Kühlschächten - - -                                                            | 184  | —— ———, the supply of well water in the - - -                                                          | 244  |
| Anderson (William). The revolving purifier for treatment of potable waters by means of metallic iron -                                                         | 129  | Berlin, die kanalisation der Stadt (Stadtrath Marggraff) - -                                           | 91   |
| Aperçus sur l'assainissement du sous-sol des villes. (Don Pedro Garcia Faria) - -                                                                              | 252  | Berrington (R. E. W.). The Wolverhampton sewerage works                                                | 89   |
| Application of an intercepting reservoir, of the type of Mouras's Fosse, and of a peat filter for sewage to the separate system of sewerage. (L. Pagliani) - - | 74   | Binnie (Alex. R.). Water supply                                                                        | 100  |
| Assainissement des villes en Italie, L' (Prof. Pacchiotti)                                                                                                     | 17   | —— ———, remarks in discussion on Municipal engineering - -                                             | 227  |
| Assainissement des Villes : Traitement des eaux d'égout par les procédés agricoles. (Aimé Bonna) - - -                                                         | 65   | —— ———, remarks in discussion on separate water-supply for domestic purposes, &c. - -                  | 118  |
| Assainissement du sous-sol des villes. (Don Pedro Garcia Faria) - - -                                                                                          | 252  | Bonua (Aimé). Assainissement des Villes : Traitement des eaux d'égout par les procédés agricoles - - - | 66   |
| Atmosphere as a diluter and diffuser, the - - -                                                                                                                | 53   | Bonlnois (H. Percy). Municipal engineering - - -                                                       | 223  |
|                                                                                                                                                                |      | —— ———, remarks in reply - -                                                                           | 228  |
|                                                                                                                                                                |      | Bruce (Dr. William). How best to dispose of the refuse of large towns - - -                            | 218  |
|                                                                                                                                                                |      | Buchan (Mr.), remarks in discussion on Sanitation in India - -                                         | 18   |
|                                                                                                                                                                |      | Buildings, the removal of sewage after leaving. (Reginald E. Middleton) - - -                          | 27   |
| <b>B.</b>                                                                                                                                                      |      | <b>C.</b>                                                                                              |      |
| Balfour (D.), remarks in discussion on sewage disposal - - -                                                                                                   | 43   | Camberwell refuse, treatment of -                                                                      | 190  |
| Bâtimens et moyens de transport des Chemins de fer - - -                                                                                                       | 120  | Canalisation, double, advantages de - - -                                                              | 104  |
| Bechmann (M.). De la distribution dans les villes de deux eaux de qualité différente par des canalisations distinctes - - -                                    | 102  | —— ———, système de - - -                                                                               | 103  |
|                                                                                                                                                                |      | Caroe (W. D.). The better ventilation of town sewers - -                                               | 52   |
|                                                                                                                                                                |      | Cesspits, the system of sealed, for sewage - - -                                                       | 28   |
|                                                                                                                                                                |      | Chemins de fer et des voyageurs, L'Hygiène des (Louis de Csáthy) - - -                                 | 119  |

|                                                                                                            | Page |
|------------------------------------------------------------------------------------------------------------|------|
| Cholera in India, cause of - -                                                                             | 21   |
| Church (Mr.), remarks in<br>discussion on Abkühlung des<br>Wassers durch Ablage von<br>Kühlschächten - - - | 182  |
| Cleansing of the streets and the<br>removal of household refuse in<br>German Towns. (Th. Weyl) -           | 203  |
| Conditions hygiéniques du Service<br>des Chemins de fer - - -                                              | 123  |
| Consumption, dampness of site<br>productive of - - -                                                       | 151  |
| Coode (Sir John). Presidential<br>address - - -                                                            | 7    |
| — —, on the durability of<br>wrought iron pipes - - -                                                      | 37   |
| — —, on gift of books by Dr.<br>Samuel Abbott - - -                                                        | 223  |
| Crimp (W. Santo). Sewer ventila-<br>tion - - -                                                             | 45   |
| — —, remarks in discussion on<br>The better ventilation of town<br>sewers - - -                            | 63   |
| Csatáry (Louis de). Hygiène des<br>chemins de fer et des voyageurs -                                       | 119  |

## D.

|                                                                                                                                |     |
|--------------------------------------------------------------------------------------------------------------------------------|-----|
| Death-rate of the city of Calcutta,<br>average, from 1877-1888 -                                                               | 23  |
| Dédoublement des distributions<br>d'eau - - -                                                                                  | 102 |
| "Destructor," a furnace for the<br>treatment of refuse - -                                                                     | 191 |
| —, and "Fume Cremator" in use<br>at Leicester, report on - -                                                                   | 201 |
| —, description of - - -                                                                                                        | 191 |
| —, figure showing plan of twelve-<br>cell - - -                                                                                | 197 |
| —, places where used - - -                                                                                                     | 193 |
| Destructor, The refuse (Charles<br>Jones) - - -                                                                                | 188 |
| Destructors and "Fume<br>"Cremators" in use at Bradford,<br>report on - - -                                                    | 198 |
| Distribution dans les villes de deux<br>eaux de qualité différente par<br>des canalisations distinctes.<br>(M. Bechmann) - - - | 102 |
| Drainage and irrigation of land<br>in their relations to health.<br>(Richard F. Grantham)-                                     | 149 |
| Drain ventilation, Sewer and.<br>(R. Read) - - -                                                                               | 47  |
| Druckwasserleitungen, Eindringen<br>von Unreinigkeiten in.<br>(G. Oesten) - - -                                                | 167 |

## E.

|                                                                                                                            | Page |
|----------------------------------------------------------------------------------------------------------------------------|------|
| Ealing destructor with fume crema-<br>tor attached, figure showing -                                                       | 199  |
| Earth-system of sewage, failure of-<br>Eau, Dédoublement des distribu-<br>tions d' - - -                                   | 28   |
| Eindringen von Unreinigkeiten in<br>Druckwasserleitungen. (G.<br>Oesten) - - -                                             | 102  |
| Electricitaet, über die Wirkung der,<br>auf die suspendirten und gelösten<br>Stoffe der Abwässer. (Claudio<br>Fermi) - - - | 167  |
| Engineering, Municipal. (H. Percy<br>Boulnois) - - -                                                                       | 138  |
| Entomostraca, important function<br>exercised by, in destroying<br>sewage impurities - - -                                 | 223  |
| Experiments in the burning of<br>house refuse. (J. F. Meyer) -                                                             | 13   |
|                                                                                                                            | 205  |

## F.

|                                                                                                                            |     |
|----------------------------------------------------------------------------------------------------------------------------|-----|
| Faria (Don Pedro Garcia). Aperçus<br>sur l'assainissement du sous-sol<br>des villes - - -                                  | 252 |
| Fermi (Claudio). Ueber die<br>wirkung der electricitaet auf die<br>suspendirten und gelösten Stoffe<br>der Abwaesser - - - | 138 |
| Fever, intermittent, sometimes<br>ascribed in tropical climates to<br>turning up of soil long un-<br>disturbed - - -       | 150 |
| Fever, malarial, the principal cause<br>of disease and death in India -                                                    | 152 |
| Filter, the "Bowden," description<br>of - - -                                                                              | 137 |
| Filtering machines, construction<br>of - - -                                                                               | 134 |
| Filters "Loomis" and "Hyatt"<br>house, description of - - -                                                                | 137 |
| Flusswasser, das filtrirte, Die<br>typhus-epidemie in Altona, 1891<br>und. (W. Kümmel) - - -                               | 229 |
| Frankland (Dr. Edward), remarks<br>in discussion on separate water<br>supply for domestic purposes, &c.                    | 112 |
| Frankland (Percy F.). The<br>present state of our knowledge<br>concerning the self-purification of<br>rivers - - -         | 169 |
| — —, remarks in reply -                                                                                                    |     |
| French and English systems of<br>sewerage. (James Lemon) -                                                                 | 24  |

|                                                                            |     |
|----------------------------------------------------------------------------|-----|
| Eume cremator, figure showing plan of twelve-cell destructor and - - - - - | 197 |
| — — —, Jones's patent, figure showing - - - - -                            | 200 |

## G.

|                                                                                                                          |     |
|--------------------------------------------------------------------------------------------------------------------------|-----|
| German Towns, On the cleansing of the streets and the removal of household refuse in. (Th. Weyl)                         | 203 |
| Grantham (Richard F.). Drainage and irrigation of land in their relations to health - - -                                | 149 |
| — — —, remarks in reply - - -                                                                                            | 159 |
| Ground-water, influence of, as a cause of disease - - -                                                                  | 145 |
| — — —, parallelism between the deaths of children under five years of age and the lowness of the - - - - -               | 147 |
| — — —, co-existing sanitary conditions influence the results of the movements of - - -                                   | 147 |
| — — —, table giving the level of the lowest, and the death-rate of children under five years of age at Croydon - - - - - | 148 |
| — — —, upon health, The influence of. (Baldwin Latham)                                                                   | 145 |

## H.

|                                                                                                                   |     |
|-------------------------------------------------------------------------------------------------------------------|-----|
| Hall (Joseph), remarks in discussion on Refuse burning - - -                                                      | 221 |
| Hampstead, refuse treatment of - - -                                                                              | 190 |
| Harrison (J. Thornhill), remarks in discussion on Municipal engineering - - - - -                                 | 228 |
| Harpur (William), remarks in discussion on Drainage and irrigation of land in their relations to health - - - - - | 157 |
| Henrot (Henri). Les procédés d'assainissement des villes - - -                                                    | 84  |
| Hime (Dr. T. W.), remarks in discussion on ventilation of town sewers - - - - -                                   | 58  |
| Holman (Stephen), remarks in discussion on The better ventilation of town sewers - - -                            | 59  |
| How best to dispose of the refuse of large towns. (Dr. William Bruce) - - - - -                                   | 218 |
| Hygiène des Chemins de fer et des voyageurs. (Louis de Csáthy)-                                                   | 119 |

## I.

|                                                                  |     |
|------------------------------------------------------------------|-----|
| Indian cities, density of population in - - - - -                | 18  |
| India, Sanitation in. (Baldwin Latham) - - - - -                 | 18  |
| India, The water supply of. (R. Pringle) - - - - -               | 242 |
| Influence of ground-water upon health, The. (Baldwin Latham)     | 145 |
| Italie, L'assainissement des villes en. (Prof. Pacchiotti) - - - | 17  |

## J.

|                                                                                                   |     |
|---------------------------------------------------------------------------------------------------|-----|
| Jones (Col. Alfred), remarks in discussion on The removal of sewage after leaving buildings - - - | 32  |
| Jones (Charles). The refuse destructor - - - - -                                                  | 188 |
| — — —, remarks in reply - - -                                                                     | 222 |

## K.

|                                                                                                    |     |
|----------------------------------------------------------------------------------------------------|-----|
| Kanalisation der Stadt Berlin. (Stadtrath Marggraff) - - -                                         | 91  |
| Keeling's patent sewer gas destructor - - - - -                                                    | 50  |
| Kensington refuse, treatment of - - -                                                              | 189 |
| Kühlsehächten, Abkühlung des Wassers durch Anlage von. (Prof. A. Oelwein) - - -                    | 175 |
| Kümmel (W.). Die typhus-epidemie in Altona, 1891, und das filtrite Flusswasser - - -               | 229 |
| — — —, remarks in discussion on Drainage and irrigation of land in their relations to health - - - | 159 |
| — — —, remarks in discussion on Separate water supply for domestic purposes, &c. - - -             | 116 |
| — — —, remarks in discussion on Abkühlung des Wassers durch Anlage von Kühlsehächten - - -         | 183 |
| — — —, remarks in reply - - -                                                                      | 252 |

## L.

|                                                                                            |     |
|--------------------------------------------------------------------------------------------|-----|
| Land, Drainage and irrigation of in their relations to health. (Richard F. Grantham) - - - | 149 |
| Latham (Baldwin). The influence of ground-water upon health - - -                          | 145 |
| — — —, Sanitation in India - - -                                                           | 18  |



|                                                                                              | Page  |
|----------------------------------------------------------------------------------------------|-------|
| Latham (Baldwin), remarks in discussion on The better ventilation of town sewers - - -       | 62    |
| — —, remarks in discussion on Drainage and irrigation of land in their relations to health - | 155   |
| — —, remarks in discussion on separate water supply for domestic purposes, &c. - -           | 115   |
| — —, remarks in discussion on the Abkühlung des Wassers durch Anlage von Kühlsehäechten      | 181   |
| — —, remarks in reply -                                                                      | 41-44 |
| Lausen in Switzerland, case of communication by spring-water of typhoid fever at - -         | 101   |
| Laws (W. Geo.), Refuse burning -                                                             | 210   |
| — —, remarks in reply -                                                                      | 222   |
| Lemon (James), French and English system of sewerage -                                       | 24    |
| — —, remarks in reply -                                                                      | 44    |
| London, average mortality of, in the 17th and 18th centuries -                               | 10    |
| — —, average quantity of water delivered to the inhabitants of, in 1890 - - - -              | 9     |
| — —, magnitude of - - -                                                                      | 9     |
| Lyon (Washington), remarks in discussion on The refuse destructor - - - -                    | 220   |

## M.

|                                                                                                                    |     |
|--------------------------------------------------------------------------------------------------------------------|-----|
| Maelagan (General R.), remarks in discussion on Drainage and irrigation of land in their relations to health - - - | 157 |
| Maignen (M.), remarks in discussion on Drainage and irrigation of land in their relations to health - -            | 158 |
| — —, remarks in discussion on Die typhus epidemie in Altona, 1891, und das filtrite Flusswasser - - -              | 250 |
| — —, remarks in discussion on Abkühlung des Wassers durch Anlage von Kühlsehäechten -                              | 185 |
| — —, remarks in discussion on Separate water supplies for domestic and for sanitary purposes at Southampton -      | 108 |
| Malaria, definition of, and effect of - - - -                                                                      | 149 |
| — —, two sources of, from marshes                                                                                  | 150 |

|                                                                                                                                                                   | Page  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Manning (Mr.), remarks in discussion on the disposal of refuse - - - -                                                                                            | 219   |
| Marggraff (Stadtrath). Die kanalisation der Stadt Berlin - -                                                                                                      | 91    |
| Maritime towns, The water supply of. (Edward F. Willoughby) -                                                                                                     | 140   |
| Massachusetts, action taken by, to protect the purity of inland waters - - - -                                                                                    | 12    |
| Matthews (Wm.). The separate water supplies for domestic and for sanitary purposes at Southampton - - - -                                                         | 108   |
| Mault (A.). The sanitation of a mining settlement - -                                                                                                             | 31    |
| — —, remarks in discussion on Abkühlung des Wassers durch Anlage von Kühlsehäechten -                                                                             | 183   |
| Metropolitan outfall works at Barking, treatment of sewage at                                                                                                     | 16    |
| Meyer (J. F.). Experiments in the burning of house refuse -                                                                                                       | 205   |
| Middleton (Reginald E.). The removal of sewage after leaving buildings - - - -                                                                                    | 27    |
| — —, remarks in conclusion -                                                                                                                                      | 260   |
| Mining settlement, The sanitation of a. (A. Mault) - -                                                                                                            | 31    |
| Morse (J. R.), remarks in discussion on Abkühlung des Wassers durch Anlage von Kühlsehäechten -                                                                   | 185   |
| Mouras's Fosse, The application of an intercepting reservoir, of the type of, and of a peat filter for sewage to the separate system of sewerage. (L. Pagliani) - | 74    |
| Moyens de sauvetage de l'infection pour les voyageurs - -                                                                                                         | 122   |
| Municipal engineering. (H. Perey Boulnois) - - - -                                                                                                                | 223   |
| — —, table giving chief branches of - - - -                                                                                                                       | 224-5 |

## N.

|                                                                                                                                                        |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| "Nelson" refuse destructor, description of - - - -                                                                                                     | 195 |
| Neuchâtel et du Léman, Projets pour l'alimentation en eau potable d'une grande partie de la France au moyen de l'eau des lacs de. (Guillaume Ritter) - | 160 |
| Newcastle-on-Tyne, table giving result of five years refuse-burning                                                                                    | 217 |
| — —, result of refuse-burning in -                                                                                                                     | 214 |



## O.

|                                                                                               | Page |
|-----------------------------------------------------------------------------------------------|------|
| Odling (Dr. Wm.), remarks in discussion on separate water supply for domestic purposes, &c. - | 117  |
| Oelwein (Professor A.), Abkühlung des Wassers durch Anlage von Kühltischächten -              | 175  |
| Oosten (G.). Eindringen von Unreinigkeiten in Druckwasserleitungen -                          | 167  |

## P.

|                                                                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Pacehiotti (Prof.). L'Assainissement des villes en Italie -                                                                                                         | 17  |
| — —, remarks on the sewerage system of Rome -                                                                                                                       | 44  |
| — —, remarks in discussion on the French and English systems of sewerage -                                                                                          | 34  |
| Pagliani (L.). On the application of an intercepting reservoir, of the type of Monras's Fosse, and of a peat filter for sewage to the separate system of sewerage - | 74  |
| Peat filter for sewage, &c. (L. Pagliani) -                                                                                                                         | 74  |
| "Perfectus" destructor, description of -                                                                                                                            | 195 |
| — —, where adopted -                                                                                                                                                | 195 |
| Pipe ventilators, advantage of -                                                                                                                                    | 54  |
| Presidential address. (Sir John Coode) -                                                                                                                            | 7   |
| Pringle (R.). The water-supply of India -                                                                                                                           | 242 |
| Procédés d'Assainissement des Villes. (Henri Henrot) -                                                                                                              | 84  |
| Projets pour l'alimentation en Eau potable d'une grande partie de la France au moyen de l'eau des lacs de Neuchâtel et du Léman. (Guillaume Ritter) -               | 160 |

## R.

|                                                                               |    |
|-------------------------------------------------------------------------------|----|
| Read (R.). Sewer and drain ventilation -                                      | 47 |
| — —, remarks in discussion on The better ventilation of town sewers -         | 64 |
| — —, remarks in discussion on The removal of sewage after leaving buildings - | 36 |

|                                                                                                                                                       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Refuse burning. (W. Geo. Laws) -                                                                                                                      | 210   |
| — —, table giving result of five years, in Newcastle-on-Tyne                                                                                          | 217   |
| Refuse composed of crude manure, sound material, and unsound stuff -                                                                                  | 211   |
| — destructor, The. (Charles Jones) -                                                                                                                  | 188   |
| —, difference between that of English and continental towns -                                                                                         | 205   |
| —, experiments in the burning of house. (J. F. Meyer) -                                                                                               | 205   |
| —, experiments made at Copenhagen in the burning of -                                                                                                 | 206   |
| —, household, On the cleansing of the streets and the removal of, in German towns. (Th. Weyl)                                                         | 203   |
| — of large towns, How best to dispose of the. (Dr. William Bruce) -                                                                                   | 218   |
| —, household, results of burning the, in summer -                                                                                                     | 209   |
| —, household, results of burning the, in winter -                                                                                                     | 206   |
| —, treatment of, at Camberwell                                                                                                                        | 190   |
| —, treatment of, at Hampstead -                                                                                                                       | 190   |
| —, treatment of, at Kensington                                                                                                                        | 189   |
| Removal of sewage after leaving buildings. (Reginald E. Middleton) -                                                                                  | 27    |
| Revolving purifier for treatment of potable waters by means of metallic iron. (Dr. William Anderson) -                                                | 129   |
| Ritter (Guillaume). Projets pour l'alimentation en eau potable d'une grande partie de la France au moyen de l'eau des Lacs de Neuchâtel et du Léman - | 160   |
| River pollution and water supply, Sewage disposal with reference to. (Prof. Henry Robinson) -                                                         | 11    |
| Rivers free from pollution, importance of keeping, in new countries                                                                                   | 13    |
| Rivers Pollution Prevention Act of 1876, desirable amendment to -                                                                                     | 12    |
| —, tables of analysis of contents of -                                                                                                                | 172-3 |
| River water in the Bengal Presidency, supply of -                                                                                                     | 245   |
| Robinson (Professor Henry). Sewage disposal with reference to river pollution and water supply                                                        | 11    |
| — —, remarks in discussion on The better ventilation of town sewers -                                                                                 | 63    |

|                                                                                                              | Page |                                                                                                                                                               | Page |
|--------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Robinsou (Professor Heury)                                                                                   |      | Sewerage, advantages of the separate system of - - -                                                                                                          | 29   |
| Remarks in discussion on Separate water supplies for domestic and for sanitary purposes at Southampton - - - | 111  | —, On the application of an intercepting reservoir, of the type of Mouras's Fosse, and of a peat filter for sewage to the separate system of. (L. Pagliani) - | 74   |
| — —, remarks in discussion on the Abkuhling des Wassers durch Anlage von Kuhl-schaechten - - -               | 180  | —, choix des terrains d'epuration - - -                                                                                                                       | 85   |
| Roechling (H. A.). Remarks in discussion on Municipal engineering - - -                                      | 227  | —, distribution de la canalisation intérieure et des collecteurs -                                                                                            | 86   |
| — —, remarks in discussion on The better ventilation of town sewers - - -                                    | 61   | —, établissement de canaux évacuateurs et suppression de ehntes d'eau - - -                                                                                   | 87   |
| — —, remarks in discussion on Sewage disposal with reference to river pollution and water supply - - -       | 38   | —, établissement de cheminées d'appel avec bruloir - - -                                                                                                      | 88   |
| <b>S.</b>                                                                                                    |      | —, établissement de reservoirs de chasse - - -                                                                                                                | 88   |
| Sand filtration as an effectual preventive of disease, little value of                                       | 102  | —, étude de la nature du sol -                                                                                                                                | 84   |
| Sanitation in India (Baldwin Latham) - - -                                                                   | 18   | —, French and English systems of. (James Lemou) - - -                                                                                                         | 24   |
| Sanitation of a mining settlement. (A. Mault) - - -                                                          | 31   | — of towus, importance of appropriately dealing with -                                                                                                        | 11   |
| Self-purification of rivers, The present state of our knowledge concerning the. (Perey C. Frankland) - - -   | 169  | —, l'épuration par le sol -                                                                                                                                   | 84   |
| Separate water supplies for domestic and for sanitary purposes at Southampton. (Wm. Matthews)                | 108  | —, separate system of, most appropriate for certain places in India - - -                                                                                     | 19   |
| Service de santé des chemins de fer - - -                                                                    | 124  | —, the system of sealed cesspits                                                                                                                              | 28   |
| Sewage disposal with reference to river pollution and water supply. (Henry Robinson) - - -                   | 11   | —, the pail system of - - -                                                                                                                                   | 28   |
| — filtration, important function of micro-organisms in -                                                     | 15   | —, tout à l'égout system of,                                                                                                                                  | 26   |
| — matter to storm-water, proportion of, in England -                                                         | 28   | — works, The Wolverhampton. (R. E. W. Berrington) -                                                                                                           | 89   |
| —, result of application of, to land generally and to non-porous soils - - -                                 | 14   | Sewers, argument against the ventilation of - - -                                                                                                             | 29   |
| —, the chief characteristics of fresh - - -                                                                  | 13   | —, The better ventilation of towu. (W. D. Caroe) - - -                                                                                                        | 52   |
| — disposal, the earth system of -                                                                            | 28   | Sijmons (Mr.), remarks on the sewerage of Amsterdam - -                                                                                                       | 37   |
| —, The removal of, after leaving buildings (Reginald E. Middleton) - - -                                     | 27   | Simpson (Dr.), remarks in discussion on The water supply of India - - -                                                                                       | 250  |
| Sewer and drain ventilation. (H. Read) - - -                                                                 | 47   | Small-pox, high death-rate from, in India - - -                                                                                                               | 23   |
| — gas, Keeling's patent destructor - - -                                                                     | 50   | Smith (Dr. Solomon) remarks in Abkuhling des Wassers durch Anlage von Kuhl-schaechten -                                                                       | 184  |
| — ventilation. (W. Santo Crimp)                                                                              | 45   | Southampton, the separate water supplies for domestic and for sanitary purposes at. (Wm. Matthews) - - -                                                      | 108  |
|                                                                                                              |      | Storm-water, proportion of to sewage matter in England -                                                                                                      | 28   |
|                                                                                                              |      | Streets, On the cleansing of, and the removal of household refuse in German towns. (Th. Weyl)                                                                 | 203  |
|                                                                                                              |      | Surveyor, development of, into municipal engineer - - -                                                                                                       | 226  |

## T.

|                                                                                                                                | Page |
|--------------------------------------------------------------------------------------------------------------------------------|------|
| Tank or pond water in the Bengal Presidency, supply of - -                                                                     | 245  |
| Thomson (Gilbert), remarks in discussion on The removal of sewage after leaving buildings -                                    | 36   |
| — (James), remarks in discussion on The removal of sewage after leaving buildings -                                            | 37   |
| Thornton (T. H.), remarks in discussion on Drainage and irrigation of land in their relations to health - - -                  | 156  |
| “Tout à l'égout” system of sewerage - - -                                                                                      | 26   |
| — — at Marseilles - - -                                                                                                        | 73   |
| Towns, essential difference in the conditions of maritime and inland - - -                                                     | 141  |
| Typhoid fever communicated by spring-water flowing miles underground from a neighbouring valley at Lausen in Switzerland - - - | 101  |
| Typhus-epidemie in Altona, 1891, und das filtrirte Flusswasser, Die. (W. Kümmel) - - -                                         | 229  |

## V.

|                                                                                                                                                                |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Van Overbeck de Meyer (Prof. D.), remarks in discussion on The better ventilation of town sewers — —, remarks on The removal of sewage after leaving buildings | 62  |
| Ventilation of town sewers, The better. (W. D. Caroe) -                                                                                                        | 52  |
| —, Sewer. (W. Santo Crimp) -                                                                                                                                   | 45  |
| —, Sewer and Drain. (R. Read) -                                                                                                                                | 47  |
| Village well in India, description of - - -                                                                                                                    | 244 |
| Villes en Italie, L'assainissement des. (Prof. Pacchiotti) -                                                                                                   | 17  |
| Voiture d'ambulance des chemins de fer R. de l'État hongrois, description de la - -                                                                            | 127 |
| Von Pettenkofer (Professor). Investigations with reference to the sewage pollution of the river Isar, made by - - -                                            | 13  |

## W.

|                                                                                                                                        | Page |
|----------------------------------------------------------------------------------------------------------------------------------------|------|
| Wales (Philip S.). The purification of water by rapid filtration -                                                                     | 133  |
| Water, average quantity of, delivered in 1890 to the inhabitants of London - - -                                                       | 9    |
| —, importance of guarding drinking, from contamination -                                                                               | 101  |
| Water supplies, generally extremely defective in India - -                                                                             | 20   |
| — supply. (Alex. R. Binnie) -                                                                                                          | 100  |
| — —, measure for improving, in India - - -                                                                                             | 247  |
| — — of India, The. (R. Pringle) - - -                                                                                                  | 242  |
| — — of maritime towns. (Edward F. Willoughby) -                                                                                        | 140  |
| — —, Sewage disposal with reference to river pollution and. (Henry Robinson) - -                                                       | 11   |
| — supplies, The separate, for domestic and for sanitary purposes at Southampton. (Wm. Matthews) - - -                                  | 108  |
| Waters, potable, Revolving purifier for treatment of, by means of metallic iron. (William Anderson) - - -                              | 129  |
| Well water in the Bengal Presidency, supply of - - -                                                                                   | 244  |
| Weyl (Th.). On the cleansing of the streets and removal of household refuse in German towns -                                          | 203  |
| Whiley (Henry). Remarks in discussion on The refuse destructor                                                                         | 219  |
| Whitaker (W.). On maps showing the area of chalk available for water supply in the central and eastern parts of the London basin - - - | 144  |
| Willoughby (Edward F.). The water supply of maritime towns -                                                                           | 140  |
| Wirkung der electricität auf die suspendirten und gelösten Stoffe der Abwässer, ueber die. (Claudio Fermi) - -                         | 138  |
| Wolverhampton, population of -                                                                                                         | 89   |
| — sewerage works. (R. E. W. Berrington) - - -                                                                                          | 89   |





## VOLUME VIII.

### NAVAL AND MILITARY HYGIENE.

#### Table of Contents and Index.

#### TABLE OF CONTENTS.

|                                                                                                                                                                                                                         | Page. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Presidential Address - - - - -                                                                                                                                                                                          | 7     |
| Modern Quarantine in Canada and in the United States - - -                                                                                                                                                              | 10    |
| Quarantine et Inspection Médicale - - - - -                                                                                                                                                                             | 14    |
| The Medical Supervision of the Mercantile Marine - - - - -                                                                                                                                                              | 18    |
| Discussion - - - - -                                                                                                                                                                                                    | 23    |
| Sanitation Afloat - - - - -                                                                                                                                                                                             | 26    |
| Discussion - - - - -                                                                                                                                                                                                    | 29    |
| Le Service Sanitaire de l'Armée Roumaine - - - - -                                                                                                                                                                      | 32    |
| Discussion - - - - -                                                                                                                                                                                                    | 40    |
| Dietary Scales in connexion with the Health of Seamen - - -                                                                                                                                                             | 41    |
| Statistics of Medical Cases admitted into the Seamen's Hospital, Greenwich,<br>during the Decade 1880-89, and of Cases of Scurvy admitted into the<br>Seamen's Hospital and into the "Dreadnought," from 1852 to 1889 - | 47    |
| Discussion - - - - -                                                                                                                                                                                                    | 51    |
| Notes on the Effect of Improved Sanitation on the Public Health of Seaport<br>Towns - - - - -                                                                                                                           | 54    |
| Discussion - - - - -                                                                                                                                                                                                    | 58    |
| Dental Reform in the Navy - - - - -                                                                                                                                                                                     | 59    |
| Discussion - - - - -                                                                                                                                                                                                    | 71    |
| Projet du nouvel hôpital militaire de Madrid - - - - -                                                                                                                                                                  | 71    |
| Considérations sur l'âge qui convient mieux au Service Militaire - -                                                                                                                                                    | 72    |
| Enteric Fever in the European Army in India ; its Etiology and Prevention -                                                                                                                                             | 79    |
| Enteric Fever in Campaigns ; its Prevalence and Causation - - -                                                                                                                                                         | 84    |
| Camp Fevers ; their Origin and Spread - - - - -                                                                                                                                                                         | 96    |
| Prophylaxie de la Fièvre Typhoïde dans l'armée française - - -                                                                                                                                                          | 101   |
| Discussion - - - - -                                                                                                                                                                                                    | 103   |
| Prophylaxie de la tuberculose pulmonaire ; mortalité par phthisie dans l'armée<br>Belge - - - - -                                                                                                                       | 110   |
| Discussion - - - - -                                                                                                                                                                                                    | 113   |
| Tentes et Baraques - - - - -                                                                                                                                                                                            | 117   |
| Discussion - - - - -                                                                                                                                                                                                    | 122   |

|                                                                                                                                                                                                                         | Page |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| The Duties of the Medical Staff of an Army engaged in Active Operations<br>in the Field - - - - -                                                                                                                       | 122  |
| On the Ambulance Organisation and Medical Arrangements of an English<br>Army Corps in the Field - - - - -                                                                                                               | 126  |
| Discussion - - - - -                                                                                                                                                                                                    | 131  |
| Etude Statistique sur le Suicide dans les Armées Européennes - -                                                                                                                                                        | 135  |
| Praktische Durchführung hyienischer Grundsätze im Kriege - -                                                                                                                                                            | 139  |
| Discussion - - - - -                                                                                                                                                                                                    | 141  |
| Note sur les avantages des attelles en Zine revêtues de tourbe rendue anti-<br>septique dans le traitement immediat et provisoire des fractures, et pour<br>l'immobilisations des membres blessés ou contusionnés - - - | 142  |
| Discussion - - - - -                                                                                                                                                                                                    | 143  |
| Ein Fall von Blitzschlag - - - - -                                                                                                                                                                                      | 144  |
| The Dietary of Troops - - - - -                                                                                                                                                                                         | 144  |

## INDEX.



# INDEX.

|                                                                                                                                                  |     | Page |                                                                                                                                                                                                                                                                    | Page |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <b>A.</b>                                                                                                                                        |     |      |                                                                                                                                                                                                                                                                    |      |
| Addison (Surgeon C. J.), On the ambulance organisation and medical arrangements of an English army corps in the field -                          | 126 |      | Camp fevers, their origin and spread. (Dr. J. Edward Squire)                                                                                                                                                                                                       | 96   |
| Ambulance organisation and medical arrangements of an English army corps in the field, The. (Surgeon C. J. Addison) -                            | 126 |      | Canada and in the United States, Modern quarantine in. (Dr. Frederick Montizambert) -                                                                                                                                                                              | 10   |
| Armée Française, Prophylaxie de la fièvre typhoïde dans l'. (Dr. Schneider) - - -                                                                | 101 |      | Canada, quarantine stations in -                                                                                                                                                                                                                                   | 13   |
| Armée Roumaine, composition d'une section d'ambulance dans l' -                                                                                  | 37  |      | Cardiff, effect of improved sanitation in - - -                                                                                                                                                                                                                    | 57   |
| — — —, Le service sanitaire de l'. (Dr. A. Fotino) - - -                                                                                         | 32  |      | — — —, heavy mortality from preventable diseases at one time in -                                                                                                                                                                                                  | 55   |
| — — —, tarif pour la nourriture des troupes dans l' - - -                                                                                        | 35  |      | Cayley (Professor), remarks in discussion on spread of typhoid fever, cholera, and other diseases                                                                                                                                                                  | 108  |
| Armstrong (Henry E.), remarks in discussion on sanitation afloat -                                                                               | 30  |      | Cholera, powers granted to port sanitary authorities in case of -                                                                                                                                                                                                  | 21   |
| — — —, remarks in discussion on quarantine - - -                                                                                                 | 24  |      | Cohen (Solomon), remarks in discussion on the effect of improved sanitation on the public health of seaport towns - - -                                                                                                                                            | 58   |
| <b>B.</b>                                                                                                                                        |     |      | Collingridge (Dr.), remarks in discussion on sanitation afloat -                                                                                                                                                                                                   | 29   |
| Baraques, Tentes et. (Dr. Duellaussoy) - - -                                                                                                     | 117 |      | — — —, remarks in discussion on scurvy - - -                                                                                                                                                                                                                       | 51   |
| Barbette and turret systems, effects of, on ventilation in modern battleships - - -                                                              | 27  |      | Considérations sur l'âge qui convient mieux au service militaire. (Dr. Dimitrescoy) - - -                                                                                                                                                                          | 72   |
| Barrington (Sir K. V.), remarks in discussion on the ambulance organisation and medical arrangements of an English army corps in the field - - - | 134 |      | Contents, table of - - -                                                                                                                                                                                                                                           | 5    |
| Brown (Brigade-Surgeon Burton), remarks on the importance of proper ventilation in the prevention of scurvy - - -                                | 53  |      | Coppinger (Dr. R. W.), Sanitation afloat - - -                                                                                                                                                                                                                     | 26   |
| Bucarest, description de - - -                                                                                                                   | 72  |      | — — —, remarks in reply -                                                                                                                                                                                                                                          | 31   |
| <b>C.</b>                                                                                                                                        |     |      | Cunningham (Geo.), Dental reform in the navy - - -                                                                                                                                                                                                                 | 59   |
| Campaigns, Enteric fever in, its prevalence and causation. (Surgeon-Captain A. M. Davies) -                                                      | 84  |      | Curnow (Dr. John), and Smith (W. Johnson), Statistics of medical cases admitted into the Seamen's Hospital, Greenwich, during the decade of 1880-89, and of cases of scurvy admitted into the Seamen's Hospital and into the "Dreadnought" from 1852 to 1889 - - - | 47   |
| "Camp diarrhœa," common occurrence of, amongst troops in tropical and sub-tropical climates                                                      | 91  |      | Cylinders, steam disinfecting, description of - - -                                                                                                                                                                                                                | 11   |
| — — —, probable cause of -                                                                                                                       | 100 |      | <b>D.</b>                                                                                                                                                                                                                                                          |      |
|                                                                                                                                                  |     |      | Davies (Surgeon-Captain A. M.), Enteric fever in campaigns, its prevalence and causation -                                                                                                                                                                         | 84   |
|                                                                                                                                                  |     |      | — — —, remarks in reply -                                                                                                                                                                                                                                          | 108  |

|                                                                                                                                                                                                                                                                | Page |                                                                                                                                                                                                                                    | Page   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| de Meyer (W. J.), remarks in discussion on prophylaxie de la tuberculose pulmonaire; mortalité par phtisie dans l'armée Belge - - - -                                                                                                                          | 117  | Enteric fever in recent campaigns, prevalence of - - - -                                                                                                                                                                           | 85     |
| Dental Hospital, London, tables showing number of recruits treated at the, for the Admiralty, January to December 1888 -                                                                                                                                       | 62   | — — — in recent campaigns, supposed cause of - - - -                                                                                                                                                                               | 87, 88 |
| Dental reform in the navy. (Geo. Cunningham) - - - -                                                                                                                                                                                                           | 59   | — — — in the Galeaka-Gaika War, 1877, prevalence of -                                                                                                                                                                              | 84     |
| Dietary of troops. (Lt.-Col. A. T. Wintle) - - - -                                                                                                                                                                                                             | 144  | — — — in the Zulu War in 1878, prevalence of - - - -                                                                                                                                                                               | 85     |
| — — — scales in connexion with the health of seamen. (W. Spooner)                                                                                                                                                                                              | 41   | — — —, prevalence of diarrhœa and bowel affections at the same time as - - - -                                                                                                                                                     | 89     |
| Diet, quotations from writers in favour of a vegetable - -                                                                                                                                                                                                     | 147  | — — —, theories as to causation of - - - -                                                                                                                                                                                         | 86     |
| — — — of ship's crew, improper proportion of different ingredients in - - - -                                                                                                                                                                                  | 43   | Emigrants, system of examination of, at Liverpool - - - -                                                                                                                                                                          | 18     |
| — — —, monotony in specimen scale of - - - -                                                                                                                                                                                                                   | 42   | Emigration doctors, duties of -                                                                                                                                                                                                    | 19     |
| — — —, proposed victualling scale to be served out per day -                                                                                                                                                                                                   | 45   | Etude statistique sur le suicide dans les armées Européennes. (Dr. R. Longuet) - - - -                                                                                                                                             | 135    |
| Dimitreseoy (Dr.), Considérations sur l'âge qui convient mieux au service militaire -                                                                                                                                                                          | 72   | Exanthemata, in camps - - -                                                                                                                                                                                                        | 98     |
| "Dreadnought," Statistics of medical cases admitted into the Seamen's Hospital, Greenwich, during the decade 1880-89, and of cases of scurvy admitted into the Seamen's Hospital and into the, from 1852 to 1889. (Dr. John Curnow and W. Johnson Smith) - - - | 47   |                                                                                                                                                                                                                                    |        |
| Duehaussoy (Dr.), Tentés et baraques - - - -                                                                                                                                                                                                                   | 117  | <b>F.</b>                                                                                                                                                                                                                          |        |
| — — —, remarks in discussion on le service sanitaire de l'armée Roumaine - - - -                                                                                                                                                                               | 40   | Félix (Dr. Jules), Note sur les avantages des attelles en zinc revêtues de tourbe rendue antiseptique dans le traitement immédiat et provisoire des fractures et pour l'immobilisation des membres blessés ou contusionnés - - - - | 142    |
| Duties of the medical staff of an army engaged in active operations in the field, The. (Brigade-Surgeon C. H. Y. Godwin) -                                                                                                                                     | 122  | — — —, remarks on prophylaxie de la tuberculose pulmonaire; mortalité par phtisie dans l'armée Belge - - - -                                                                                                                       | 114    |
| Dysentery, probable factors of importance in the causation of this disease - - - -                                                                                                                                                                             | 99   | — — —, remarks in discussion on tentés et baraques - - -                                                                                                                                                                           | 122    |
|                                                                                                                                                                                                                                                                |      | — — —, remarks in reply -                                                                                                                                                                                                          | 144    |
| <b>E.</b>                                                                                                                                                                                                                                                      |      | Fever, enteric, in India, identical with the same disease as seen in Europe - - - -                                                                                                                                                | 84     |
| Enteric fever, frequent occurrence of - - - -                                                                                                                                                                                                                  | 98   | — — —, in the European army in India; its etiology and prevention. (Professor J. Lane Notter) - - - -                                                                                                                              | 79     |
| — — — in campaigns, its prevalence and causation. (Surgeon-Captain A. M. Davies) -                                                                                                                                                                             | 84   | — — —, months when virulent form prevalent - - - -                                                                                                                                                                                 | 83     |
|                                                                                                                                                                                                                                                                |      | — — —, table showing the average annual death-rate from, in British soldiers at different periods of residence in India -                                                                                                          | 82     |
|                                                                                                                                                                                                                                                                |      | — — —, mixed types of - - -                                                                                                                                                                                                        | 100    |
|                                                                                                                                                                                                                                                                |      | Fevers, non-specific, cause of -                                                                                                                                                                                                   | 100    |
|                                                                                                                                                                                                                                                                |      | — — — which may assume importance in camp, list of - - -                                                                                                                                                                           | 97     |



|                                                                                          | Page |
|------------------------------------------------------------------------------------------|------|
| Féraud (Bérenger), remarks in discussion on le service sanitaire de l'armée Roumaine - - | 40   |
| — —, remarks in discussion on quarantaine et inspection médicale - -                     | 23   |
| Fièvre typhoïde dans l'armée Française, prophylaxie de la (Dr. Schneider) - -            | 101  |
| Fisher, Mr., on dental hygiene in the navy - -                                           | 69   |
| Fotino (Dr. A.), Le service sanitaire de l'Armée Roumaine - -                            | 32   |
| Fumigation, sulphur dioxide, special furnace for - -                                     | 12   |

## G.

|                                                                                                                           |     |
|---------------------------------------------------------------------------------------------------------------------------|-----|
| Godfrey (Dr.), remarks in discussion on "typho-malaria" as a name - -                                                     | 107 |
| Godwin (Brigade-Surgeon C. H. Y.), The duties of the medical staff of an army engaged in active operations in the field - | 122 |
| — —, remarks in reply -                                                                                                   | 135 |
| Grossheim (Dr.) Praktische Durchführung hygienischer Grundsätze im Kriege - -                                             | 139 |

## H.

|                                                                                                                                  |     |
|----------------------------------------------------------------------------------------------------------------------------------|-----|
| Hambleton (Dr.), remarks in discussion on prophylaxie de la tuberculose pulmonaire; mortalité par phtisie dans l'armée Belge - - | 116 |
| Harris (Dr. Alfred E.), remarks in discussion on sanitation afloat -                                                             | 31  |
| — —, remarks in discussion on the medical supervision of the mercantile marine - -                                               | 25  |
| — —, remarks in discussion on the effect of improved sanitation on the public health of seaport towns - -                        | 58  |
| Harvey (Brigade-Surgeon), remarks in discussion on Indian fevers - -                                                             | 104 |
| Health of seamen, Dietary scales in connexion with the. (W. Spooner) - -                                                         | 41  |
| Hector (Brigade-Surgeon), remarks in discussion on dental reform in the navy - -                                                 | 71  |

|                                                                                                                                                  |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Hector (Brigade-Surgeon), remarks in discussion on the ambulance organisation and medical arrangements of an English army corps in the field - - | 131 |
| Hôpital Militaire de Madrid, Projet du nouvel. (Don Modesto Martinez Pacheco) - -                                                                | 71  |

## I.

|                                                               |    |
|---------------------------------------------------------------|----|
| Inspection médicale, Quarantine et (Dr. Valentin Vignard) - - | 14 |
|---------------------------------------------------------------|----|

## K.

|                                                                                                                      |     |
|----------------------------------------------------------------------------------------------------------------------|-----|
| Kirchner (Dr.), remarks in discussion on Praktische Durchführung hygienischer Grundsätze im Kriege - -               | 141 |
| — —, remarks in discussion on prophylaxie de la tuberculose pulmonaire; mortalité par phtisie dans l'armée Belge - - | 114 |
| Kriege, Praktische Durchführung hygienischer Grundsätze im. (Dr. Grossheim) - -                                      | 139 |

## L.

|                                                                                                        |     |
|--------------------------------------------------------------------------------------------------------|-----|
| Logie (Dr. V.), Prophylaxie de la tuberculose pulmonaire; mortalité par phtisie dans l'armée Belge - - | 110 |
| Longuet (Dr. R.), Etude statistique sur le suicide dans les armées Européennes - -                     | 135 |

## M.

|                                                                                          |     |
|------------------------------------------------------------------------------------------|-----|
| Madrid, Projet du nouvel Hôpital Militaire de, (Don Modesto Martinez Pacheco) - -        | 71  |
| Marston (Surgeon-General J.), remarks in discussion on dental reform in the navy - -     | 71  |
| — —, remarks in discussion on prophylaxie de la fièvre typhoïde dans l'armée Française - | 104 |
| Mason (Dr. J. Wright), remarks in discussion on inspection of emigrants at Hull - -      | 25  |
| Maunsell (Brigade-Surgeon T.), remarks in discussion on enteric fever in India - -       | 106 |
| Medical inspection, advantages of the system of, over the quarantine system - -          | 16  |

|                                                                                                                                            | Page |
|--------------------------------------------------------------------------------------------------------------------------------------------|------|
| Medical staff of an army engaged in active operations in the field, Duties of the. (Brigade-Surgeon C. H. Y. Godwin) - - -                 | 122  |
| Medical supervision of the mercantile marine. (Dr. J. Stopford Taylor) - - -                                                               | 18   |
| Mereantile marine, The medical supervision of the. (Dr. J. Stopford Taylor) - - -                                                          | 18   |
| Mercuric chloride drench, description of - - -                                                                                             | 11   |
| Modern quarantine in Canada and in the United States. (Dr. Frederick Montizambert) - -                                                     | 10   |
| Montizambert (Dr. Frederick), Modern quarantine in Canada and in the United States -                                                       | 10   |
| Morris (Surgeon), remarks in discussion on the ambulance organisation and medical arrangements of an English army corps in the field - - - | 132  |
| Muir (Brigade-Surgeon Henry Skey), remarks in discussion on typho-malarial fever - -                                                       | 107  |

## N.

|                                                                                                                                                                                                                                  |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Navy, Dental reform in the (Geo. Cunningham) - - -                                                                                                                                                                               | 59  |
| Note sur les avantages des attelles en zinc revêtues de tourbe rendue antiseptique dans le traitement immédiat et provisoire des fractures et pour l'immobilisation des membres blessés ou contusionnés. (Dr. Jules Félix) - - - | 142 |
| Notes on the effect of improved sanitation on the public health of seaport towns. (Dr. Edward Walford) - - -                                                                                                                     | 54  |
| Notter (Professor J. Lane), Enteric fever in the European army in India; its etiology and prevention - - -                                                                                                                       | 79  |
| ——, remarks in discussion on sanitation afloat - -                                                                                                                                                                               | 30  |
| ——, remarks in discussion on dental reform in the navy -                                                                                                                                                                         | 71  |
| ——, remarks in reply -                                                                                                                                                                                                           | 168 |
| Nyades (Dr. Paul), remarks in discussion on sanitation afloat -                                                                                                                                                                  | 29  |

## O.

|                               |        |
|-------------------------------|--------|
| Officers of Section VIII. - - | Page 3 |
|-------------------------------|--------|

## P.

|                                                                                                                  |     |
|------------------------------------------------------------------------------------------------------------------|-----|
| Pacheco (Don Modesto Martinez), Projet du nouvel Hôpital Militaire de Madrid - -                                 | 71  |
| Phtisie, dans l'armée Belge, Mortalité par. (Dr. V. Logie) -                                                     | 110 |
| Praktische Durchführung hygienischer Grundsätze im Kriege. (Dr. Grossheim) - -                                   | 139 |
| Presidential address (The Right Hon. the Lord Wantage) -                                                         | 7   |
| Pringle (Brigade-Surgeon Robert), remarks in discussion on enteric fever in India - -                            | 105 |
| Projet du nouvel Hôpital Militaire de Madrid. (Don Modesto Martinez Pacheco) - -                                 | 71  |
| Prophylaxie de la fièvre typhoïde dans l'armée Française. (Dr. Schneider) - - -                                  | 101 |
| Prophylaxie de la tuberculose pulmonaire; mortalité par phtisie dans l'armée Belge. (Dr. V. Logie) - - -         | 110 |
| Provisions for a ship's crew, specimen scale of - - -                                                            | 42  |
| Public Health Act, 1875, provisions of section giving power to local authority to deal with infected ships - - - | 20  |
| Pulmonary tuberculosis, measures for the prevention and amelioration of - - -                                    | 110 |

## Q.

|                                                                                 |    |
|---------------------------------------------------------------------------------|----|
| Quarantine et inspection médicale. (Dr. Valentin Vignard) -                     | 14 |
| Quarantinable diseases in Canada and in the United States -                     | 12 |
| Quarantine Act of 1825, provisions of - - -                                     | 20 |
| ——, comparison of, with medical inspection - - -                                | 15 |
| —— in Canada and in the United States, Modern. (Dr. Frederick Montizambert) - - | 10 |
| ——, practical abolition of, in England - - -                                    | 19 |
| ——, significance of maritime -                                                  | 10 |
| —— station, main requirements for - - -                                         | 10 |

|                                                                                                                                                                                                                                                                  | Page   |                                                                                                                                                                                                                                                                                             | Page |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Quarantine stations, list of, in<br>Canada and in the United States                                                                                                                                                                                              | 13     | Scurvy, table showing cases of, ad-<br>mitted into "Dreadnought" and<br>Seamen's Hospital from 1852 to<br>1889 - - - -                                                                                                                                                                      | 50   |
| <b>R.</b>                                                                                                                                                                                                                                                        |        | —, table showing last passages<br>of patients admitted with, from<br>1875-89 inclusive - -                                                                                                                                                                                                  | 50   |
| Rae (Dr.), remarks in discussion<br>on scurvy - - -                                                                                                                                                                                                              | 51     | —, table showing outbreaks of,<br>reported to the Board of Trade<br>during the last 15 years -                                                                                                                                                                                              | 46   |
| Robierson (Surgeon-Major G. S.),<br>remarks in discussion on typho-<br>malarial fever - - -                                                                                                                                                                      | 106    | —, table showing ports to which<br>British and foreign ships with<br>belonged, 1875-89 - -                                                                                                                                                                                                  | 49   |
| Rotary fans, "exhaust," as ven-<br>tilating appliances in ships -                                                                                                                                                                                                | 27     | Seamen's Hospital, Greenwich, Sta-<br>tistics of medical cases admitted<br>into the, during the decade of<br>1880-89. (Dr. John Curnow<br>and W. Johnson Smith) -                                                                                                                           | 47   |
| — —, artificial ventilation by,<br>in ships - - -                                                                                                                                                                                                                | 27     | — —, Greenwich, table show-<br>ing total number of cases ad-<br>mitted from 1880-89 - -                                                                                                                                                                                                     | 47   |
| — — "supply," as ventilating<br>appliances in ships - -                                                                                                                                                                                                          | 27     | Seaport towns, Notes on the effect<br>of improved sanitation on the<br>public health of. (Dr. Edward<br>Walford) - - -                                                                                                                                                                      | 54   |
| Roumanic, tableau statistique sur<br>le résultat des opérations du<br>recrutement en, pendant une<br>période de 10 ans, de 1881-1890                                                                                                                             | 77, 78 | Service militaire, Considérations sur<br>l'âge qui convient mieux au.<br>(Dr. Dimitrescoy) - -                                                                                                                                                                                              | 72   |
| <b>S.</b>                                                                                                                                                                                                                                                        |        | Service sanitaire de l'armée Rou-<br>maine, Le. (Dr. A. Fotino) -                                                                                                                                                                                                                           | 32   |
| Salt meat in diet of ship's crew,<br>excess of - - -                                                                                                                                                                                                             | 43     | Smith (W. Johnson) and Curnow<br>(Dr. John), Statistics of medical<br>cases admitted into the Seamen's<br>Hospital, Greenwich, during the<br>decade of 1880-89, and of cases<br>of scurvy admitted into the Sea-<br>men's Hospital and into the<br>"Dreadnought" from 1852 to<br>1889 - - - | 47   |
| Sanitation afloat. (Dr. R. W.<br>Coppinger) - - -                                                                                                                                                                                                                | 26     | Spooner (W.), Dietary scales in<br>connexion with the health of<br>seamen - - -                                                                                                                                                                                                             | 41   |
| Sanitation, Notes on the effect of<br>improved, on the public health<br>of seaport towns. (Dr. Edward<br>Walford) - - -                                                                                                                                          | 54     | — —, remarks in reply -                                                                                                                                                                                                                                                                     | 54   |
| Scheibe (Dr.), Ein fall von blitz-<br>schlag - - -                                                                                                                                                                                                               | 144    | Squire (Dr. J. Edward), Camp<br>fevers; their origin and spread -                                                                                                                                                                                                                           | 96   |
| Sehneider (Dr.), Prophylaxie de<br>la fièvre typhoïde dans l'armée<br>Française - - -                                                                                                                                                                            | 101    | — —, remarks in reply -                                                                                                                                                                                                                                                                     | 109  |
| — —, remarks in discussion<br>on note sur les avantages des<br>attelles en zinc revêtues de<br>tourbe rendue antiseptique dans<br>le traitement immédiat et pro-<br>visoire des fractures et pour<br>l'immobilisation des membres<br>blessés ou contusionnés - - | 142    | Staples (Brigade-Surgeon), remarks<br>in discussion on the ambulance<br>organisation and medical arrange-<br>ments of an English army corps<br>in the field - - -                                                                                                                           | 134  |
| Seurvy, Cases of, admitted into the<br>Seamen's Hospital, Greenwich,<br>1880-89, and into the "Dread-<br>nought" from 1852 to 1889,<br>statistics of. (Dr. John Curnow<br>and W. Johnson Smith) -                                                                | 47     | — —, remarks in discussion<br>on prophylaxie de la fièvre<br>typhoïde dans l'armée Française                                                                                                                                                                                                | 103  |
| — —, causes of great diminution in<br>cases of - - -                                                                                                                                                                                                             | 48     |                                                                                                                                                                                                                                                                                             |      |



|                                                                                                                                                                                                                                                           | Page     |                                                                                                                               | Page |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------|------|
| Statistics of medical cases admitted into the Seamen's Hospital, Greenwich, during the decade of 1880-89, and of cases of scurvy admitted into the Seamen's Hospital and into the "Dreadnought" from 1352 to 1889. (Dr. John Curnow and W. Johusou Smith) | 47       | Tuberculeuse pulmonaire; Prophylaxie de la, mortalité par phthisie dans l'armée Belge. (Dr. V. Logie)                         | 110  |
| Steam-jet exhaust, disadvantages of                                                                                                                                                                                                                       | 28       | Turret and barbette systems as affecting the ventilation of modern battleships                                                | 27   |
| Suicide, cause du, dans les armées Européennes                                                                                                                                                                                                            | 137      | <b>U.</b>                                                                                                                     |      |
| —, conditions de service, âge, grade, arme du, dans les armées Européennes                                                                                                                                                                                | 136      | United States, Modern quarantine in Canada and in the. (Dr. Frederick Montizambert)                                           | 10   |
| — dans les armées Européennes, Etude statistique sur le. (Dr. R. Longuet)                                                                                                                                                                                 | 135      | — —, quarantine stations in the                                                                                               | 13   |
| — —, fréquence du                                                                                                                                                                                                                                         | 135, 136 | <b>V.</b>                                                                                                                     |      |
| — —, influences générales, race, nationalité, climat, saison, contagion                                                                                                                                                                                   | 137      | Vegetable food, deficiency of, in diet of ship's crew                                                                         | 43   |
| Suicide, mode de, dans les armées Européennes                                                                                                                                                                                                             | 136      | Ventilation, method of artificial "exhaust" by means of the funnel and funnel casing                                          | 28   |
| Swanston (C. J.), remarks in discussion on Dietary Scales in connexion with the Health of Seamen                                                                                                                                                          | 52       | Vignard (Dr. Valentin), Quarantine et inspection médicale                                                                     | 14   |
| <b>T.</b>                                                                                                                                                                                                                                                 |          | Von Coler (Dr.), remarks in discussion on prophylaxie de la tuberculose pulmonaire; mortalité par phthisie dans l'armée Belge | 110  |
| Taylor (Miss Helen), remarks in discussion on scurvy                                                                                                                                                                                                      | 53       | Walford (Dr. Edward), Notes on the effect of improved sanitation on the public health of seaport towns                        | 54   |
| Taylor (Dr. J. Stopford), The medical supervision of the Mercantile Marine                                                                                                                                                                                | 18       | — —, remarks in reply                                                                                                         | 58   |
| — —, remarks in discussion on the effect of improved sanitation on the public health of seaport towns                                                                                                                                                     | 58       | <b>W.</b>                                                                                                                     |      |
| Teeth in the navy, causes productive of deterioration of the men's                                                                                                                                                                                        | 66       | Wantage (The Right Hon. the Lord), Presidential address                                                                       | 7    |
| Tentes et baraques. (Dr. Duchaussoy)                                                                                                                                                                                                                      | 117      | Wintle (Lieut. Col. A. T.), The dietary of troops                                                                             | 144  |
| Tonnalsuri (B.), remarks in discussion on scurvy                                                                                                                                                                                                          | 53       | Woodhull (Colonel Alfred A.), remarks in discussion on the medical supervision of the Mercantile Marine                       | 25   |



# VOLUME IX.

## STATE HYGIENE.

### Table of Contents and Index.

#### TABLE OF CONTENTS.

|                                                                                                                                                                                                                        | Page |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Presidential Address - - - - -                                                                                                                                                                                         | 7    |
| The Formation and Organisation of Local Boards of Health - -                                                                                                                                                           | 10   |
| Discussion - - - - -                                                                                                                                                                                                   | 13   |
| Sanitary Legislation in Ontario (Canada) for the Prevention of Epidemic,<br>Endemic, Epizootic, and other Contagious Diseases - -                                                                                      | 13   |
| Discussion - - - - -                                                                                                                                                                                                   | 21   |
| Results of Ten Years' Public Sanitary Work in Dublin - -                                                                                                                                                               | 22   |
| Discussion - - - - -                                                                                                                                                                                                   | 29   |
| Should the State undertake Scientific Investigations into the Origin and<br>Causes of Disease? - - - - -                                                                                                               | 29   |
| Should the State undertake the Support of Laboratories for the Investigation<br>of Disease? - - - - -                                                                                                                  | 32   |
| Discussion - - - - -                                                                                                                                                                                                   | 36   |
| Suggestions for the Constitution of an International Convention on Hygiene -                                                                                                                                           | 36   |
| American Municipal Hygiene in Relation to the Housing of Labour - -                                                                                                                                                    | 38   |
| The Housing of the Poorer Classes - - - - -                                                                                                                                                                            | 52   |
| The State and the Homes of the Poor - - - - -                                                                                                                                                                          | 57   |
| On the Housing of the Poorer Classes - - - - -                                                                                                                                                                         | 60   |
| The Sanitary Registration of Dwellings in regard to Drainage and Water<br>Supply - - - - -                                                                                                                             | 61   |
| Discussion - - - - -                                                                                                                                                                                                   | 65   |
| The present state of British Law Controlling the Discharge of Noxious Gases<br>from Manufacturing Processes - - - - -                                                                                                  | 66   |
| Les falsifications des produits commerciaux et les mesures internationales<br>pour leur répression - - - - -                                                                                                           | 72   |
| Discussion - - - - -                                                                                                                                                                                                   | 74   |
| The extent to which the State should exercise Control in the Interest of<br>Public Health over the Sale of Poisons - - - - -                                                                                           | 74   |
| Discussion - - - - -                                                                                                                                                                                                   | 78   |
| On recent Proposals relating to Burial and Cremation, and the Importance of<br>Disinfecting all Bodies dying from Infectious Disease; with Remarks on the<br>Present System of Certifying the Cause of Death - - - - - | 79   |

|                                                                                                                                                                              | Page |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| The Rational Disposal of the Dead; a Plea for Legislation                                                                                                                    | 86   |
| La Crémation en France                                                                                                                                                       | 94   |
| Note sur la Crémation à Paris en 1891                                                                                                                                        | 103  |
| Assainissement des Cimetières                                                                                                                                                | 113  |
| Disenssion                                                                                                                                                                   | 115  |
| The Statutory Education and Registration of Architects                                                                                                                       | 119  |
| Disenssion                                                                                                                                                                   | 124  |
| The Education, Training, and Status of Sanitary Inspectors                                                                                                                   | 125  |
| The Education, Position, and Duties of Plumbers                                                                                                                              | 139  |
| Report of the Council of the Association of Sanitary Inspectors of Great Britain to the Seventh International Congress of Hygiene and Demography                             | 147  |
| Disenssion                                                                                                                                                                   | 153  |
| De l'Organisation Sanitaire en Espagne                                                                                                                                       | 154  |
| Dans quelle mesure l'État peut-il intervenir pour empêcher la diffusion de la tuberculose                                                                                    | 163  |
| An Illustration of the Advantage of the Isolation of Persons exposed to Infection afforded by a limited Outbreak of Typhus Fever in Leeds, during the spring of 1890         | 164  |
| Compulsory Notification of Infectious Diseases                                                                                                                               | 166  |
| Should Compulsory Notification be made general?                                                                                                                              | 174  |
| Disenssion                                                                                                                                                                   | 200  |
| What Steps should the State take to prevent the Spread of Venereal Diseases?                                                                                                 | 204  |
| On the Sanitary Condition ( <i>re</i> Venereal Disease) of the British Home Army previous to the Contagious Diseases Acts, during their Operation, and since their Abolition | 221  |
| On the Duty of the State with respect to the Spread of Venereal Disease                                                                                                      | 227  |
| Disenssion                                                                                                                                                                   | 235  |
| The Teaching of the Laws of Health in Schools                                                                                                                                | 237  |
| Women's Work in promoting the Cause of Hygiene                                                                                                                               | 242  |
| The Need for Popular Instruction in Hygiene and Physiology                                                                                                                   | 246  |
| Hygiene for the Zenanas of India                                                                                                                                             | 249  |
| Disenssion                                                                                                                                                                   | 255  |
| Popular Instruction in Preventive Dentistry                                                                                                                                  | 256  |

## INDEX.



## INDEX.

| A.                                                                                                                                                     |     | Page |                                                                                                                                                                                                      | Page |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Abbott (J. S. W.), remarks in discussion on Assainissement des cimetières - - -                                                                        | 117 |      | Appareil crématoire, onctionnement de l' - - -                                                                                                                                                       | 110  |
| — — — remarks in discussion on Les falsifications des produits commerciaux et les mesures internationales pour leur répression - - -                   | 72  |      | — Fichet - - -                                                                                                                                                                                       | 109  |
| Act, provisions of the Vaccination, in Ontario - - -                                                                                                   | 20  |      | — Gorini - - -                                                                                                                                                                                       | 107  |
| Acts, assimilation of sanitary and building - - -                                                                                                      | 58  |      | — O. André et Piat pour l'introduction des corps - - -                                                                                                                                               | 109  |
| Address, Presidential - - -                                                                                                                            | 7   |      | — Toisoul et Fradet - - -                                                                                                                                                                            | 108  |
| Administration, sanitary, for inspection, comparison of, in Germany, France, and England -                                                             | 129 |      | Appareils crématoires - - -                                                                                                                                                                          | 95   |
| Admissions, table showing number of, and ratios per 1,000 from primary syphilis and gonorrhœa in the Chatham district, from 1880 to 1890 inclusive - - | 231 |      | — d'incinération - - -                                                                                                                                                                               | 107  |
| Air pollution, ancient and modern legislation against - - -                                                                                            | 67  |      | Architects, The statutory education and registration of. (W. Howard Seth-Smith) - - -                                                                                                                | 119  |
| Alexander (Hugh), report of the Council of the Association of Sanitary Inspectors of Great Britain - - -                                               | 147 |      | Architecture, necessity for examinations in the science and art of - - -                                                                                                                             | 121  |
| — — —, resolution seconded by -                                                                                                                        | 154 |      | Army, On the sanitary condition ( <i>re</i> venereal diseases) of the British home, previous to the Contagious Diseases Acts, during their operation and since their abolition. (Dr. J. B. Nevins) - | 221  |
| — — —, remarks in discussion on Sanitary registration of dwellings - - -                                                                               | 66  |      | Ashpits and privies in Dublin -                                                                                                                                                                      | 26   |
| Alkali Act, primary object of -                                                                                                                        | 69  |      | Atkinson (Dr.), remarks in discussion on Should compulsory notification be made general? -                                                                                                           | 201  |
| — — — of 1863, provisions of -                                                                                                                         | 67  |      |                                                                                                                                                                                                      |      |
| — — — works, number of, registered in Great Britain and Ireland -                                                                                      | 70  |      | B.                                                                                                                                                                                                   |      |
| America, measures adopted in, as to the sale of poisons - - -                                                                                          | 78  |      | Ballard (Dr.), work in connexion with Local Government Board -                                                                                                                                       | 30   |
| American propositions with regard to the prevention of the spread of venereal diseases - - -                                                           | 219 |      | Banks (Sir John), remarks in discussion on Results of ten years' public sanitary work in Dublin -                                                                                                    | 29   |
| Amos (Mrs. Sheldon), remarks in discussion on Sanitary registration of dwellings - - -                                                                 | 66  |      | Barry (Dr.), resolution seconded by - - -                                                                                                                                                            | 258  |
| Anderton (T.), remarks in discussion on the report of the Council of the Association of Sanitary Inspectors - - -                                      | 153 |      | Basing, Lord, Presidential address -                                                                                                                                                                 | 7    |
|                                                                                                                                                        |     |      | Below (Ernst), Suggestions for the constitution of an international convention on hygiene - - -                                                                                                      | 36   |
|                                                                                                                                                        |     |      | Berdock (Edward), remarks in discussion on Should compulsory notification be made general? -                                                                                                         | 202  |
|                                                                                                                                                        |     |      | — (Dr.), remarks in discussion on The duty of the State with respect to the spread of venereal disease - - -                                                                                         | 236  |

|                                                                                                                              | Page |                                                                                                                                                                                                  | Page |
|------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Besant (Mrs. Annie), remarks in discussion on The duty of the State with respect to the spread of venereal disease - - -     | 236  | Cameron (Sir C.), remarks in reply - - - - -                                                                                                                                                     | 29   |
| Biddle (D.), Should compulsory notification be made general? - - -                                                           | 174  | —— —, Results of ten years' public sanitary work in Dublin - - -                                                                                                                                 | 22   |
| —— —, remarks in reply - - -                                                                                                 | 204  | —— (J. Spottiswoode), An illustration of the advantage of the isolation of persons exposed to infection afforded by a limited outbreak of typhus fever in Leeds, during the spring of 1890 - - - | 164  |
| Biggs (Conneillor, Leicester), remarks in discussion on Sanitary legislation in Ontario (Canada), &c. - - - - -              | 21   | —— —, remarks in discussion on Should compulsory notification be made general? - - -                                                                                                             | 203  |
| Bishop (W. H.), Professor Garnett's paper read by - - -                                                                      | 139  | Cancer, call for special inquiry into the cause, &c. of - - -                                                                                                                                    | 30   |
| Block-system of dwellings, objections to - - - - -                                                                           | 58   | Carpenter (Miss), founder of the National Indian Association - - -                                                                                                                               | 249  |
| Board schools, registration of, as regards drainage and water-supply - - - - -                                               | 63   | Carteighe (Mr.), remarks in discussion on The extent to which the State should exercise control in the interest of public health over the sale of poisons - - -                                  | 78   |
| Body, the physical development of in athletic sports - - -                                                                   | 221  | Cash (Dr.), work in connexion with Local Government Board - - -                                                                                                                                  | 30   |
| Boobyer (Philip), Compulsory notification of infectious diseases - - -                                                       | 166  | Cassidy (J. J.), Sanitary legislation in Ontario (Canada), for the prevention of epidemic, endemic, epizootic, and other contagious diseases - - - - -                                           | 13   |
| —— —, remarks in discussion on Should compulsory notification be made general? - - -                                         | 204  | —— —, remarks in reply - - -                                                                                                                                                                     | 21   |
| Brett (A.), remarks in discussion on Assainissement des cimetières - - - - -                                                 | 116  | Cates (Arthur), remarks in discussion on The statutory education and registration of architects - - - - -                                                                                        | 124  |
| Brouardel, Du Mesnil, et Ogier (MM.), Assainissement des cimetières - - - - -                                                | 113  | Chapman (Dr.), remarks in discussion on The duty of the State with respect to the spread of venereal disease - - -                                                                               | 236  |
| Brnee (Dr. William), The need for popular instruction in hygiene and physiology - - - - -                                    | 246  | —— —, remarks in discussion on Should the State undertake the support of laboratories for the investigation of disease? - - -                                                                    | 36   |
| Buehan (W. P.), remarks in discussion on Assainissement des cimetières - - - - -                                             | 116  | Cimetières, Assainissement des. (MM. Brouardel, Du Mesnil, et Ogier) - - - - -                                                                                                                   | 113  |
| Burial, provisions of a proposed Bill for safe and proper - - -                                                              | 91   | Codex alimentarius - - - - -                                                                                                                                                                     | 73   |
| —— and Cremation, Recent proposals relating to (Sir H. Thompson) - - - - -                                                   | 79   | Coe (Conneillor), remarks in discussion on sanitary legislation in Ontario (Canada), &c. - - -                                                                                                   | 21   |
| Burroughs (S. M.), on the housing of the poorer classes - - -                                                                | 60   | Coffins, imperishable, material cause of much mischief in the disposal of the dead - - -                                                                                                         | 88   |
| Butler (Mrs. Josephine), remarks in discussion on The duty of the State with respect to the spread of venereal disease - - - | 235  | Columbarium - - - - -                                                                                                                                                                            | 110  |
|                                                                                                                              |      | Corbet (T.), remarks in discussion on Should compulsory notification be made general? - - -                                                                                                      | 202  |
| C.                                                                                                                           |      |                                                                                                                                                                                                  |      |
| Caffort (Charles). Note sur la crémation à Paris en 1891 - - -                                                               | 103  |                                                                                                                                                                                                  |      |



|                                                                                                                                   | Page |                                                                                                                                     | Page |
|-----------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------|------|
| Corbey (Professor), remarks in dis-<br>cussion on the report of the<br>Council of the Association of<br>Sanitary Inspectors - - - | 153  | Death-Rates, general (from all<br>causes), table showing - - -                                                                      | 181  |
| Corradi (Prof. Alfonso), Dans<br>quelle mesure l'État peut-il<br>intervenir pour empêcher la<br>diffusion de la tuberculose ? -   | 163  | — — —, measles, table showing -                                                                                                     | 189  |
| Covernton (Dr.), remarks in dis-<br>cussion on Should compulsory<br>notification be made general? -                               | 201  | — — —, non-notifiable zymotic,<br>table showing - - -                                                                               | 184  |
| — — —, remarks in discussion<br>on sanitary legislation in Ontario<br>(Canada), &c. - - -                                         | 21   | — — —, notifiable zymotic, table<br>showing - - -                                                                                   | 183  |
| Craik (Dr.), remarks in discussion<br>on sanitary legislation in Ontario<br>(Canada), &c. - - -                                   | 21   | — — —, proportion of zymotic<br>to total deaths in two periods of<br>four years each, table showing -                               | 198  |
| Cremation, advantages of, in all<br>cases - - -                                                                                   | 85   | — — —, proportion of zymotic<br>to total deaths in four quin-<br>quennia, table showing -                                           | 197  |
| — — —, a direct and potent incentive<br>to crime - - -                                                                            | 90   | — — —, scarlet fever, table<br>showing - - -                                                                                        | 186  |
| Crémation à Paris en 1891, Note<br>sur la. (Charles Caffort) -                                                                    | 103  | — — —, small-pox, table showing                                                                                                     | 185  |
| Cremation, desirability of, in cases<br>of death from infectious disease -                                                        | 84   | — — —, total zymotic, table<br>showing - - -                                                                                        | 182  |
| — — —, process of - - -                                                                                                           | 83   | — — —, uncertified deaths, table<br>showing - - -                                                                                   | 199  |
| Crémation, propagande—obstacles<br>—réformes - - -                                                                                | 99   | — — —, whooping cough, table<br>showing - - -                                                                                       | 190  |
| Cremation, Burial and, Recent<br>proposals relating to. (Sir H.<br>Thompson) - - -                                                | 79   | — — —, (mean), for each of four<br>quinquennia, Part I., table<br>showing - - -                                                     | 192  |
| Crémation en France, la, 1889-91.<br>(Georges Salomon) - - -                                                                      | 91   | — — —, (mean), for each of four<br>quinquennia, Part II., table<br>showing - - -                                                    | 193  |
| Crowding in the native Indian<br>sick room often excessive - -                                                                    | 251  | — — —, (mean), for each of four<br>quinquennia, Part III., table<br>showing - - -                                                   | 194  |
| Cunningham (George), Popular<br>instruction in preventive den-<br>tistry - - -                                                    | 256  | — — —, (mean), in yearly de-<br>scending quinquennia, table<br>showing - - -                                                        | 196  |
|                                                                                                                                   |      | Deaths, caused by syphilis -                                                                                                        | 225  |
|                                                                                                                                   |      | — — —, number of, from all causes<br>in England and Wales during<br>the last three years - - -                                      | 80   |
|                                                                                                                                   |      | Dentistry, Popular instruction in<br>preventive (George Cunningham)                                                                 | 256  |
|                                                                                                                                   |      | Diarrhœa, call for special inquiry<br>into the causes and etiology of -                                                             | 31   |
|                                                                                                                                   |      | Diphtheria, call for special inquiry<br>into cause, &c. of - - -                                                                    | 30   |
|                                                                                                                                   |      | Discharge of noxious gases from<br>manufacturing processes, The<br>present state of British law<br>controlling the (A. E. Fletcher) | 66   |
|                                                                                                                                   |      | Disease, comparative amount of, in<br>the stations not under the C. D.<br>Acts - - -                                                | 224  |
|                                                                                                                                   |      | — — —, importance of disinfecting all<br>bodies dying from (Sir H.<br>Thompson) - - -                                               | 79   |

## D.

|                                                                                                                                     |     |
|-------------------------------------------------------------------------------------------------------------------------------------|-----|
| Dead, moral cause of mischievous<br>results in the disposal of - - -                                                                | 88  |
| Death, remarks on the present<br>system of certifying the cause of<br>(Sir H. Thompson) - - -                                       | 79  |
| Death-Rates, contrast between two<br>periods of non-notification and of<br>notification, of four years each,<br>table showing - - - | 195 |
| — — —, diarrhœa, table showing                                                                                                      | 191 |
| — — —, diphtheria, table show-<br>ing - - -                                                                                         | 187 |
| — — —, "fever" (chiefly en-<br>teric), table showing - - -                                                                          | 188 |

|                                                                                                                                         | Page |                                                                                                                                              | Page |
|-----------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------|------|
| Disease, proposed steps for checking the spread of venereal -                                                                           | 210  | Dublin, situation of, with respect to drainage -                                                                                             | 22   |
| —, Should the State undertake scientific investigations into the origin and causes of? (Hy. Tomkins) -                                  | 29   | Du Mesnil, Brouardel, et Ogier (MM.), Assainissement des cimetières -                                                                        | 113  |
| —, venereal, On the duty of the State with respect to the spread of (J. Holroyde) -                                                     | 227  | Dudfield (Dr.), (London) vote of thanks to President, proposed by Dunan (Ebenezer), remarks in discussion on Assainissement des cimetières - | 115  |
| Diseases Acts, the Contagious, in England -                                                                                             | 206  | Du Pré (Dr.), work in connexion with Local Government Board -                                                                                | 30   |
| —, the Contagious, in India -                                                                                                           | 207  | Dwellings, The sanitary registration of, in regard to drainage and water supply. (H. Rutherford) -                                           | 61   |
| —, the Contagious, influence of the repeal of, on the health of the civil population -                                                  | 225  |                                                                                                                                              |      |
| Diseases, Compulsory notification of infectious (Philip Boobyer) -                                                                      | 166  | <b>E.</b>                                                                                                                                    |      |
| —, examinations to prevent spread of venereal, in Sweden -                                                                              | 208  | Espagne, nouvelle loi sanitaire d' -                                                                                                         | 162  |
| —, laws to prevent spread of venereal, in Denmark -                                                                                     | 209  | Ewing (Dr.), remarks in discussion on Should compulsory notification be made general? -                                                      | 203  |
| —, laws to prevent spread of venereal, in Norway -                                                                                      | 210  |                                                                                                                                              |      |
| —, Sanitary legislation in Ontario (Canada) for the prevention of epidemic, endemic, epizootic, and other contagious. (J. J. Cassidy) - | 13   | <b>F.</b>                                                                                                                                    |      |
| —, American propositions with regard to the prevention of the spread of venereal -                                                      | 219  | Falsifications des produits commerciaux et les mesures internationales pour leur répression. (P. F. van Hamel Roos) -                        | 72   |
| —, What steps should the State take to prevent the spread of venereal? (J. Birkbeck Nevins) -                                           | 204  | Fletcher (A. E.), The present state of British law controlling the discharge of noxious gases from manufacturing processes -                 | 66   |
| Domicile mortuaire, les mesures devant être prises au -                                                                                 | 93   | Fraunce, measures adopted in, in the interest of public health as to the sale of poisons -                                                   | 79   |
| Drainage and water supply, The sanitary registration of dwellings in regard to. (H. Rutherford) -                                       | 61   | Francis (Surgeon-General C. R.), Hygiene for the zenanas of India -                                                                          | 249  |
| Drainage in New York -                                                                                                                  | 43   |                                                                                                                                              |      |
| Drysdale (Dr.), remarks in discussion on, Should compulsory notification be made general? -                                             | 202  | <b>G.</b>                                                                                                                                    |      |
| —, remarks in discussion on The duty of the State with respect to the spread of venereal disease -                                      | 235  | Garnett (Professor), The education, position, and duties of plumbers -                                                                       | 139  |
| “Dual” system of compulsory notification of infectious diseases -                                                                       | 167  | —, remarks in discussion on plumbers' work -                                                                                                 | 153  |
| Dublin, condition of ash-pits and privies in, before 1880 -                                                                             | 26   | Gemmell (Dr.), remarks in discussion on Should compulsory notification be made general? -                                                    | 203  |
| —, death rate in 1879 -                                                                                                                 | 23   | Germany, measures adopted in, as to the sale of poisons -                                                                                    | 78   |
| —, measures adopted for improving the sanitary state of -                                                                               | 23   | Glasgow Lock Hospital -                                                                                                                      | 213  |
| —, Results of 10 years' sanitary work in. (Sir Charles A. Cameron) -                                                                    | 22   | Goff (Miss Annie), remarks in discussion on Should the State undertake the support of laboratories for the investigation of disease -        | 35   |

|                                                                                                                                              | Page |                                                                                                                | Page   |
|----------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------|--------|
| Gould (E. R. L.), American municipal hygiene in relation to the housing of labour - - -                                                      | 38   | Health Act, Public, of 1891 (Ontario) - - -                                                                    | 18     |
| — — —, remarks in discussion on Sanitary registration of dwellings                                                                           | 66   | —, department of the city of New York, composition of -                                                        | 40     |
| Government Board, excellent hygienic work done by the Local -                                                                                | 8    | —, syllabus of proposed course of study in the teaching of the laws of, in schools - - -                       | 241    |
| — — —, functions of medical department of Local - - -                                                                                        | 30   | Hewitt (Dr.), remarks in discussion on Should compulsory notification be made general ? - - -                  | 200    |
| Graveyards, laxity of the Board of Health in 1840 in dealing with the subject of burial grounds -                                            | 87   | Hill (Dr.), remarks in discussion on the report of the council of the Association of Sanitary Inspectors - - - | 153    |
| Grimshaw (T. W.), remarks in discussion on Results of 10 years' public sanitary work in Dublin -                                             | 29   | Holroyde (J.), On the duty of the State with respect to the spread of venereal disease - - -                   | 227    |
| <b>H.</b>                                                                                                                                    |      | Hotels and lodgings, legislative control of, as regards drainage and water supply - - -                        | 63     |
| Haden (Francis Seymour), The rational disposal of the dead; a plea for legislation - - -                                                     | 86   | House drainage and water supply, insufficiency of legislation as to -                                          | 61     |
| — — —, remarks in discussion on Assainissement des cimetières -                                                                              | 117  | Housing of the industrial classes, provision of the Board of Health of New York for - - -                      | 41     |
| Hamer (John), The State and the homes of the poor - - -                                                                                      | 57   | — of the poorer classes. (Theodore Thomson) - - -                                                              | 52     |
| Hart (Ernest), remarks in discussion on Assainissement des cimetières - - -                                                                  | 118  | — of the poorer classes. (S. M. Burroughs) - - -                                                               | 60     |
| — — —, resolution seconded by -                                                                                                              | 119  | — of the poorer classes, difficulties in the way of - - -                                                      | 55, 60 |
| Harvey (Brigade-Surgeon), remarks in discussion on The duty of the State with respect to the spread of venereal disease -                    | 235  | — of labour, American municipal hygiene in relation to the. (E. R. L. Gould) - - -                             | 38     |
| Haughton (Dr.), remarks in discussion on Should the State undertake the support of Laboratories for the investigation of disease -           | 36   | — of Labour, report required from the sanitary police in New York - - -                                        | 47     |
| Hay (Professor), remarks in discussion on the report of the council of the Association of Sanitary Inspectors - - -                          | 153  | Hygiene and physiology, The need for popular instruction in. (Dr. Wm. Bruce) - - -                             | 246    |
| Health, The formation and organisation of Local Boards of. (Dr. Simon) - - -                                                                 | 10   | —, public organisations for promoting hygiene - - -                                                            | 244    |
| —, interest of public, over the sale of poisons, The extent to which the State should exercise control in the. (Dr. G. Danford Thomas) - - - | 74   | —, of the month, importance of -                                                                               | 257    |
| — Act (Ontario), passed in 1887, re school protection against infectious diseases - - -                                                      | 16   | —, Women's work in promoting the cause of. (Margaret Eleanor Scott) - - -                                      | 242    |
| — — —, provisions of the Ontario, of 1882 - - -                                                                                              | 13   | —, women's work outside the home as nurses, teachers, lecturers on, &c. - - -                                  | 243    |
| — — —, Public, of 1885, Ontario, provisions of - - -                                                                                         | 16   | —, for the zenanas of India. (Surgeon-General C. R. Francis)                                                   | 249    |
|                                                                                                                                              |      | <b>I.</b>                                                                                                      |        |
|                                                                                                                                              |      | Ince (John), remarks in discussion on Assainissement des cimetières                                            | 117    |



|                                                                                                                                                                            | Page |                                                                                                                                                | Page |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Incinération, l', législation en ee<br>qui concerne - - -                                                                                                                  | 103  | Law (Mr.), work in connexion with<br>Local Government Board -                                                                                  | 30   |
| Incinérations, formalités pour les -                                                                                                                                       | 104  | Lawrence (Rev. Mr.), work in con-<br>nexion with the Church of Eng-<br>land Funeral Reform Association                                         | 89   |
| —, statistique des - - -                                                                                                                                                   | 111  | — —, remarks in diseussion on<br>Assainissement des Cimetières -                                                                               | 115  |
| —, le tarif des, établi à Paris - 94,                                                                                                                                      | 106  | Lawson (Inspector-General), re-<br>marks in discussion on The duty<br>of the State with respect to the<br>spread of venereal disease -         | 236  |
| Infants, feeding of - - -                                                                                                                                                  | 238  | Leeds, outbreak of Typhus Fever<br>in, in 1890 - - -                                                                                           | 164  |
| Infection from dead bodies, methods<br>for the prevention of - - -                                                                                                         | 83   | Legislation, en ee qui concerne la<br>crémation à Paris - - -                                                                                  | 103  |
| Influenza, call for special inquiry<br>into the cause, &c. of recent<br>outbreak of - - -                                                                                  | 31   | Lithiby (Mr.), resolution proposed<br>by - - -                                                                                                 | 258  |
| Inspection, origin of the present<br>system of sanitary - - -                                                                                                              | 148  | — —, resolutions seconded by                                                                                                                   | 118  |
| —, system of lay, in England -                                                                                                                                             | 130  | Littlejohn (Dr.), remarks in dis-<br>cussion on The extent to which the<br>State should exercise control over<br>the sale of poisons - - -     | 78   |
| Inspectors, qualification of sanitary                                                                                                                                      | 151  | — —, resolution seconded by                                                                                                                    | 79   |
| —, the first selections of -                                                                                                                                               | 148  | — —, vote of thanks to Pre-<br>sident seconded by - - -                                                                                        | 9    |
| International Hygienic Convention,<br>Suggestions for the constitution<br>of an. (Ernst Below) - - -                                                                       | 36   | Lodgings, legislative control of, as<br>regards drainage and water-<br>supply - - -                                                            | 63   |
| Isolation of persons exposed to in-<br>fection, Advantage of, afforded by<br>a limited outbreak of typhus fever<br>in Leeds, in 1890. (J. Spottis-<br>woode Cameron) - - - | 164  | Longstaff (Dr.), work in connexion<br>with Local Government Board -                                                                            | 30   |
| Italy, measures adopted in, as to<br>the sale of poisons - - -                                                                                                             | 78   | Lying-in chamber, insanitary con-<br>dition of native Indian - -                                                                               | 250  |
| <b>J.</b>                                                                                                                                                                  |      | Lyon (Washington), remarks in<br>discussion on Hygiene for the<br>zenanas of India - - -                                                       | 255  |
| Japan, measures adopted in, as to<br>the sale of poisons - - -                                                                                                             | 78   | Lyons, report of Commission on<br>preventive measures and regula-<br>tions in contagious diseases -                                            | 218  |
| Judge (Mark H.), remarks in dis-<br>cussion on the Report of the<br>Council of the Association of<br>Sanitary Inspectors - - -                                             | 153  | <b>M.</b>                                                                                                                                      |      |
| — —, remarks in discussion on<br>The statutory education and re-<br>gistration of architects - - -                                                                         | 124  | McGann (Brigade Surgeon), re-<br>marks in discussion on The extent<br>to which the State should exercise<br>control over the sale of poisons - | 78   |
| — —, remarks in discussion<br>on the Sanitary registration of<br>dwellings - - -                                                                                           | 66   | Monument crématoire - - -                                                                                                                      | 107  |
| <b>K.</b>                                                                                                                                                                  |      | — —, les mesures devant être<br>prises au - - -                                                                                                | 93   |
| Klein (Dr.), work in connexion with<br>Local Government Board -                                                                                                            | 30   | Monuments crématoires - - -                                                                                                                    | 95   |
| Kraus (Dr. B.), on the control of<br>venereal disease - - -                                                                                                                | 220  | Mortality in New York City during<br>the last 15 years, table giving<br>the proportion of infant to total -                                    | 47   |
| <b>L.</b>                                                                                                                                                                  |      | — —, table showing, in an urban<br>population in Ontario for 1889 -                                                                            | 20   |
| Laboratories, Should the State un-<br>dertake the support of, for the<br>investigation of disease? (A. B.<br>Wright) - - -                                                 | 32   |                                                                                                                                                |      |



|                                                                                              |     |
|----------------------------------------------------------------------------------------------|-----|
| Mortality, from syphilis during the operation of the Contagious Diseases Acts - - -          | 226 |
| Murphy (Shirley), remarks in discussion on Should compulsory notification be made general? - | 200 |

## N.

|                                                                                                                                                                                          |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Nevins (J. Birkbeck), What steps should the State take to prevent the spread of venereal diseases? -                                                                                     | 204 |
| — —, On the sanitary condition ( <i>re</i> venereal diseases) of the British Home Army previous to the Contagious Diseases Acts, during their operation, and since their abolition - - - | 221 |
| — —, remarks in discussion on The duty of the State with respect to the spread of venereal disease - - -                                                                                 | 237 |
| Newark, N. J., supplement to the sanitary code adopted by the Board of Health of the city of, October 1890 - - -                                                                         | 48  |
| Newsholme (Arthur), The teaching of the laws of health in schools -                                                                                                                      | 237 |
| New York, effects of sanitary legislation in - - -                                                                                                                                       | 43  |
| — —, technical sanitary inspection of - - -                                                                                                                                              | 41  |
| Notification, Should compulsory be made general? (D. Biddle) -                                                                                                                           | 174 |
| Nottingham, table showing result of compulsory notification of infectious diseases in, from 1882-1890 - - -                                                                              | 170 |

## O.

|                                                                                                                                |     |
|--------------------------------------------------------------------------------------------------------------------------------|-----|
| Ogier, Brouardel, et Du Mesnil (MM.), Assainissement des cimetières - - -                                                      | 113 |
| Ontario, provisions of Health Acts - 13, 15, 17, 18                                                                            |     |
| —, Sanitary legislation in, for the prevention of epidemic, endemic, epizootic, and other contagious diseases. (J. J. Cassidy) | 13  |
| Organisation sanitaire en Espagne, de l'. (M. le Professeur Vilanova y Piera) - - -                                            | 154 |

## P.

|                                                                                                                               |     |
|-------------------------------------------------------------------------------------------------------------------------------|-----|
| Pankhurst (Dr.), remarks in discussion on The sanitary registration of dwellings - -                                          | 65  |
| Parkes (Dr. Louis), remarks in discussion on The sanitary registration of dwellings - -                                       | 65  |
| — —, remarks in discussion on Should compulsory notification be made general? - -                                             | 200 |
| Parsons (Dr. H. Franklin), remarks in discussion on Assainissement des cimetières - - -                                       | 116 |
| — —, work in connexion with the Local Government Board -                                                                      | 30  |
| Physiology, The need for popular instruction on hygiene and. (Dr. Wm. Bruce) - - -                                            | 246 |
| Piera (M. le Professeur Vilanova y), De l'organisation sanitaire en Espagne - - -                                             | 154 |
| Plumber, individual responsibility resting on the ordinary journey-men - - -                                                  | 141 |
| —, public interest involved in the position of - - -                                                                          | 141 |
| Plumbers, The education, position, and duties of. (Prof. Garnett) -                                                           | 139 |
| —, the Worshipful Company of, preliminary examination - -                                                                     | 146 |
| —, grand syllabus of instruction for, final course - - -                                                                      | 145 |
| —, grand syllabus of instruction for, intermediate course - -                                                                 | 145 |
| —, grand syllabus of instruction for, preliminary course - -                                                                  | 144 |
| Plumbing and drainage in New York - - -                                                                                       | 43  |
| Pneumonia, investigation into the causes and origin of epidemic -                                                             | 31  |
| Poison, mortality from effects of, in 1889 - - -                                                                              | 74  |
| Poisons, schedules of - - -                                                                                                   | 76  |
| Popular instruction in prevention dentistry. (George Cunningham)                                                              | 256 |
| Poor, The State and the homes of the. (John Hamer) - - -                                                                      | 57  |
| Power (Mr.), work in connexion with Local Government Board -                                                                  | 30  |
| Prince (Dr.), remarks in discussion on Sanitary legislation in Ontario (Canada), &c. - - -                                    | 21  |
| Pringle (Brigade Surgeon R.), remarks in discussion on The duty of the State with respect to the spread of venereal disease - | 235 |

|                                                                                                                                                       | Page |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Privies and ashpits in Dublin -                                                                                                                       | 26   |
| Produits commerciaux, Les falsifications des, et les mesures internationales pour leur répression. (P. F. van Hamel Roos) -                           | 72   |
| Prostitution, amount and course of primary venereal sores in the 14 stations put under regulated, (the Contagious Diseases Acts), from 1860 to 1889 - | 223  |

## R.

|                                                                                                                                                    |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Rabbit plague, possibility of a remedy for, in the Australian Colonies -                                                                           | 34  |
| Reid (Dr. George), The education, training, and status of sanitary inspectors -                                                                    | 125 |
| — — —, resolution proposed by -                                                                                                                    | 154 |
| — — —, resolution seconded by -                                                                                                                    | 123 |
| Report of the Council of the Association of Sanitary Inspectors of Great Britain to the Seventh International Congress of Hygiene and Demography - | 147 |
| — of the House of Lords Committee on the Contagious Diseases Act of 1866 -                                                                         | 213 |
| Routh (D.), remarks in discussion on The duty of the State with respect to the spread of venereal disease -                                        | 235 |
| Rutherford (H.), The sanitary registration of dwellings in regard to drainage and water-supply -                                                   | 61  |

## S.

|                                                                                                   |          |
|---------------------------------------------------------------------------------------------------|----------|
| Salomon (Georges), la crémation en France, 1889-91 -                                              | 91       |
| — — —, resolutions proposed by -                                                                  | 118      |
| Sanderson (Dr. Burdon), work in connexion with Local Government Board -                           | 30       |
| Sanitary and Building Acts, assimilation of -                                                     | 58       |
| — Code, supplement to, adopted by the Board of Health of the City of Newark, N.J., October 1890 - | 48       |
| — inspection of New York, technical -                                                             | 41       |
| — inspectors, table relating to rural districts -                                                 | 137, 138 |

|                                                                                                                         | Page               |
|-------------------------------------------------------------------------------------------------------------------------|--------------------|
| Sanitary Inspectors, table relating to urban districts -                                                                | 133, 134, 135, 136 |
| — — —, tenure of office and protection in performance of duties of -                                                    | 151                |
| — — —, The education, training, and status of. (Dr. George Reid) -                                                      | 125                |
| — law, Royal Commission formed in 1869 for England and Wales -                                                          | 10                 |
| — organization in France -                                                                                              | 130                |
| — — — in Germany -                                                                                                      | 129, 130           |
| — work in Dublin, Results of 10 years' public. (Sir Charles A. Cameron) -                                               | 22                 |
| — legislation of New York, effects of -                                                                                 | 43                 |
| Schools of England and Wales, number of scholars examined in various specific subjects in the elementary, during 1890 - | 240                |
| Scotland, deaths in, during 1888, from zymotic diseases -                                                               | 80                 |
| Scott (Margaret Eleanor), Women's work in promoting the cause of hygiene -                                              | 242                |
| Sergeant (Edward), remarks in discussion on Should compulsory notification be made general? -                           | 200                |
| Seth-Smith (W. Howard), The statutory education and registration of architects -                                        | 119                |
| — — —, resolution proposed by -                                                                                         | 123                |
| Simon (Dr.), The formation and organisation of local boards of health -                                                 | 10                 |
| "Single" system of compulsory notification of infectious diseases -                                                     | 167                |
| Snakes, extermination of poisonous -                                                                                    | 254                |
| Statutory education and registration of architects. (W. Howard Seth-Smith) -                                            | 119                |

## T.

|                                                                                                                                            |    |
|--------------------------------------------------------------------------------------------------------------------------------------------|----|
| Tenement-house reform, permanent commission on, of New York -                                                                              | 43 |
| Thomas (Dr. G. Danford), The extent to which the State should exercise control in the interest of public health over the sale of poisons - | 74 |
| — — —, resolution proposed by -                                                                                                            | 79 |

|                                                                                                                                                                                                                                | Page |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Thompson (Sir Henry), On recent proposals relating to burial and cremation, and the importance of disinfecting all bodies dying from infectious disease; with remarks on the present system of certifying the cause of death - | 79   |
| — — —, remarks in discussion on Assainissement des cimetières - - -                                                                                                                                                            | 117  |
| — — —, resolution moved by -                                                                                                                                                                                                   | 118  |
| Thomson (Theodore), The housing of the poorer classes - -                                                                                                                                                                      | 52   |
| Tomkins (Hy.), Should the State undertake scientific investigations into the origin and cause of disease? - - -                                                                                                                | 29   |
| — — —, remarks in discussion on Should the State undertake the support of laboratories for the investigation of disease? -                                                                                                     | 36   |
| Towns, nine non-notification, table of - - -                                                                                                                                                                                   | 172  |
| — — —, ten notification, table of -                                                                                                                                                                                            | 171  |
| — — —, — — —, table of - -                                                                                                                                                                                                     | 172  |
| Tuberculose, Dans quelle mesure l'État peut-il intervenir pour empêcher la diffusion de la. (Alfonso Corradi) - -                                                                                                              | 163  |
| Tuberculosis, call for special inquiry into the etiology and transmission of - - -                                                                                                                                             | 31   |
| Typhus fever, outbreak of, in Leeds, &c. (Dr. J. S. Cameron)                                                                                                                                                                   | 164  |

## U.

|                        |     |
|------------------------|-----|
| Urnes.—Columbarium - - | 105 |
|------------------------|-----|

## V.

|                                                                                                                           |     |
|---------------------------------------------------------------------------------------------------------------------------|-----|
| Van Hamel Roos (P. F.), Les falsifications des produits commerciaux et les mesures internationales pour leur répression - | 72  |
| Venereal disease, effects of State regulation of, and of the absence of such regulations, at Chatham -                    | 233 |
| Ventilation, imperfect in all Hindu dwellings - - -                                                                       | 250 |

|                                                                                                                                 | Page |
|---------------------------------------------------------------------------------------------------------------------------------|------|
| Vienna, resolution passed by the International Medical Congress in, regarding State control of the spread of venereal disease - | 218  |
| Vivant (Dr.), remarks in discussion on Should compulsory notification be made general? - -                                      | 202  |
| Vivisection, the question of - -                                                                                                | 35   |

## W.

|                                                                                                                    |     |
|--------------------------------------------------------------------------------------------------------------------|-----|
| Water-supply, The sanitary registration of dwellings in regard to drainage and. (H. Rutherford) -                  | 61  |
| Wells (Sir Spencer), remarks in discussion on Assainissement des cimetières - - -                                  | 115 |
| Whitaker (Dr.), remarks in discussion on Results of ten years' public sanitary work in Dublin -                    | 29  |
| — — —, remarks in discussion on Sanitary legislation in Ontario (Canada), &c. - - -                                | 21  |
| Willoughby (Dr.), remarks in discussion on Should compulsory notification be made general? -                       | 201 |
| — — —, remarks in discussion on Assainissement des cimetières -                                                    | 117 |
| — — —, remarks in discussion on The formation and organisation of local boards of health -                         | 13  |
| Wilson (Henry J.), remarks in discussion on The duty of the State with respect to the spread of venereal disease - | 236 |
| Women's work in promoting the cause of hygiene. (Margaret Eleanor Scott) - - -                                     | 242 |
| Woolridge (Dr.), work in connexion with Local Government Board - - -                                               | 30  |
| Wright (A. E.), Should the State undertake the support of laboratories for the investigation of disease? - - -     | 32  |

## Z.

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| Zenanas of India, hygiene for the. (Surgeon-General C. R. Francis) | 249 |
| Zymotic diseases, mortality from, in reference to cremation - -    | 80  |





## VOLUME X.

## DEMOGRAPHY.

## Table of Contents and Index.

## TABLE OF CONTENTS.

|                                                                                                                                                                             | Page |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Presidential Address - - - - -                                                                                                                                              | 7    |
| Mortality in relation to Oeenpation - - - - -                                                                                                                               | 12   |
| De la Morbidité et de la Mortalité par Professions - - - - -                                                                                                                | 23   |
| De la Mortalité des Mineurs, des Armurieurs, et des Passimentiers à<br>St. Etienne, 1880-89 - - - - -                                                                       | 57   |
| Discussion - - - - -                                                                                                                                                        | 62   |
| Thrift in Great Britain - - - - -                                                                                                                                           | 67   |
| The Board and Lodging of London Work-Girls - - - - -                                                                                                                        | 76   |
| Berieht über die Sozialstatistische Ausbeute der Arbeiterversicherung - - - - -                                                                                             | 84   |
| Discussion - - - - -                                                                                                                                                        | 106  |
| The Protection of Workmen in Factories, and its promotion by Museums of<br>Industrial Hygiene - - - - -                                                                     | 110  |
| Réduction de la Mortalité des grandes Cités : application à Bareelone - - - - -                                                                                             | 113  |
| The Economie Advantages of Industrial Hygiene - - - - -                                                                                                                     | 127  |
| Les Migrations en France et en Europe - - - - -                                                                                                                             | 131  |
| Discussion - - - - -                                                                                                                                                        | 153  |
| Tropical Highlands : their Suitability for European Settlement - - - - -                                                                                                    | 155  |
| The Suitability of Tropical Highlands for Enropean Settlement - - - - -                                                                                                     | 165  |
| To what extent are Tropieal Altitudes adapted for Settlement by Europeans ? - - - - -                                                                                       | 170  |
| On the Suitability of Mountainous Regions and of Islands in the Tropics for<br>European Settlement - - - - -                                                                | 178  |
| The Growth and Development of Anglo-Indian Children - - - - -                                                                                                               | 184  |
| Discussion - - - - -                                                                                                                                                        | 185  |
| On the Influence of Clays and Limestones on Medical Geography : Illustrated<br>by the Geographical Distribution of Caneer amongst Females in England<br>and Wales - - - - - | 186  |
| The Influence of Geology upon Health, and upon the distribution of Disease - - - - -                                                                                        | 195  |
| Berieht über eine Lepra Enquête in Egypten - - - - -                                                                                                                        | 196  |
| Indian Faactory Legislation - - - - -                                                                                                                                       | 219  |
| Factory Labour in the Indian Spinning and Weaving Mills - - - - -                                                                                                           | 232  |
| Discussion - - - - -                                                                                                                                                        | 242  |
| An Analysis of Mr. Holt Hallett's paper on Factory Legislation in India - - - - -                                                                                           | 245  |
| Le Travail à Domicile en Russie - - - - -                                                                                                                                   | 249  |
| Du Travail dans les Fabriques au point de vue Sanitaire - - - - -                                                                                                           | 255  |

|                                                                                                                                                                      | Page |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Remarques sur les Périodes d'Observation dans les Recherches démographiques                                                                                          | 258  |
| Einfluss des Alters der Eltern auf die Vitalität ihrer Kinder - -                                                                                                    | 262  |
| Discussion - - - - -                                                                                                                                                 | 292  |
| Personal Identity determined by Scars and other Body Marks - -                                                                                                       | 294  |
| Finger-prints and their Registration as a means of Personal Identification -                                                                                         | 301  |
| Résultats Statistiques de l'Anthropométrie appliquée à l'Identification des                                                                                          |      |
| Personnes - - - - -                                                                                                                                                  | 303  |
| Discussion - - - - -                                                                                                                                                 | 307  |
| Results of Anthropometry at Cambridge - - - - -                                                                                                                      | 308  |
| The Physical condition of Children seen in Schools, and the local distribution<br>of Conditions of Defective Development - - - - -                                   | 315  |
| An Examination into the Condition of the Teeth of School-children: Pre-<br>liminary Report of the Committee appointed by The British Dental<br>Association - - - - - | 323  |
| The Physical Condition of Pauper children boarded out under the Local<br>Government Orders, 1870, and Amended 1889 - - - - -                                         | 329  |
| Discussion - - - - -                                                                                                                                                 | 335  |
| Special Resolutions - - - - -                                                                                                                                        | 336  |

## INDEX.



## INDEX.

|                                                                                                                                                  |     | Page |                                                                                                                                                                               |     | Page |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| <b>A.</b>                                                                                                                                        |     |      | Barbadoes Whites, history and origin of - - -                                                                                                                                 |     | 182  |
| Address, Presidential. (Francis Galton, F.R.S.) - - -                                                                                            | 7   |      | Bareelone, Réduction de la Mortalité des grandes Cités: Application à. (P. Garcia Faria) - -                                                                                  | 113 |      |
| Anglo-Indian Children, The Growth and Development of. (Dr. G. M. Giles) - - -                                                                    | 184 |      | —, Succinct examen de - - -                                                                                                                                                   | 117 |      |
| Anthropometric Method (Bertillon's), introduction into United States of - - -                                                                    | 294 |      | Bash (Dr.), remarks in discussion on The Relations of Mortality to Occupation - - -                                                                                           | 67  |      |
| Anthropometrie appliquée à l'Identification des Personnes, Résultats statistiques de l'. (Dr. Jacques Bertillon et Dr. Alphonse Bertillon) - - - | 303 |      | Beach (Dr. Fletcher), remarks in disenssion on the Physieal Condition of Children - - -                                                                                       | 335 |      |
| Anthropometry at Cambridge, Results of. (Dr. John Venn) - -                                                                                      | 308 |      | Bericht ueber die sozialstatische Ausbeute der Arbeiterversicherung. (Dr. Georg von Mayr) -                                                                                   | 84  |      |
| —, Table showing comparative excellenee in different physical Capacities - - -                                                                   | 313 |      | — ueber eine Lepra-Enquête in Egypten. (Franz Engel Bey) -                                                                                                                    | 196 |      |
| —, Table showing comparative physical proficiency of three intellectual classes - - -                                                            | 314 |      | Bertillon (Dr. Alphonse) et Bertillon (Dr. Jacques), Résultats statistiques de l'Anthropometrie appliquée à l'Identification des Personnes - - -                              | 303 |      |
| —, Table showing Physical Development of Students in general from 18 to 25 - - -                                                                 | 313 |      | —, (Dr. Jacques), De la Morbidité et de la Mortalité par Professions - - -                                                                                                    | 23  |      |
| Arbeiterversieherung, Bericht ueber die sozialstatische Ausbeute der. (Dr. Georg von Mayr) - - -                                                 | 84  |      | Board and Lodging of London Work-Girls, The. (F. H. Whympier) - - -                                                                                                           | 76  |      |
| —, Oeffentlich-rechtliche - - -                                                                                                                  | 86  |      | Boehmert (Professor), remarks in disenssion on The Relations of Mortality to Occupation - -                                                                                   | 66  |      |
| Arbeiterversicherungswesen ausser der oeffentlich-rechtlichen Zwangsversicherung - - -                                                           | 94  |      | — —, remarks in discussion on Thrift - - -                                                                                                                                    | 108 |      |
| Arlidge (Dr.), remarks in discussion ou The Relations of Mortality to Occupation - - -                                                           | 66  |      | Bombay Sanitary Commission, 1884, Report of - - -                                                                                                                             | 227 |      |
| <b>B.</b>                                                                                                                                        |     |      | Britain, Thrift in Great. (Rowland Hamilton) - - -                                                                                                                            | 67  |      |
| Bahadhurji (K.N., M.D.), Analysis of Mr. Holt Hallett's paper on Factory Legislation in India -                                                  | 245 |      | British Dental Association, Preliminary Report as to the Condition of the Teeth of School Children of the Committee appointed by the. (J. S. Turner and W. B. Paterson) - - - | 323 |      |
| — —, Factory Labour in the Indian Spinning and Weaving Mills - - -                                                                               | 235 |      | Brousse (Dr. Paul), Resolution proposed by - - -                                                                                                                              | 336 |      |
| Balfour (Graham), Resolution seconded by - - -                                                                                                   | 336 |      | Building Societies, objects of -                                                                                                                                              | 74  |      |

## C.

|                                                                                                                                                   | Page |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Cambridge, Results of Anthropometry at. (Dr. John Venn) -                                                                                         | 308  |
| Cancer, amongst Females in England and Wales, The influence of clays and limestones on, and the Geographical Distribution of. (Alfred Haviland) - | 186  |
| —, Table comparing death-rates from, in clay and chalk districts -                                                                                | 194  |
| —, Table giving the death-rate among females at certain age-periods for the 20 years 1851-1870 to every 10,000 females living from -              | 188  |
| —, Table showing the death-rate of two decennial periods separately from -                                                                        | 193  |
| —, Table showing death-rates in clay, flooded, and chalk districts from -                                                                         | 194  |
| —, Table showing death-rates in the chalk country of Hampshire from -                                                                             | 193  |
| Children as seen in Schools, Table giving Analysis of Records of 50,027 -                                                                         | 320  |
| — in Public Elementary Schools (XXXV—C), Table giving Conditions of Defective Development. Per-centages in Cases seen in Twenty Districts -       | 321  |
| — seen in Schools, The Physical Condition of. (Francis Warner, M.D.) -                                                                            | 315  |
| — —, Table giving general Analysis of cases seen -                                                                                                | 317  |
| Collecting Societies, objects of -                                                                                                                | 74   |
| Colonization Zones -                                                                                                                              | 163  |
| Commeree de l'Alimentation, Mortalité de -                                                                                                        | 45   |
| Comparaison de la population née dans la commune ou dans le département avec la population immigrée -                                             | 132  |
| Contents, Table of -                                                                                                                              | 3    |
| Cook (Surgeon-General H.), remarks in discussion on Factory Labour in the Indian Spinning and Weaving Mills -                                     | 242  |
| Co-operative Stores, progress of -                                                                                                                | 73   |
| Cunningham (G.), remarks in discussion on the Physical Condition of Children -                                                                    | 335  |

## D.

|                                                                                                             | Page |
|-------------------------------------------------------------------------------------------------------------|------|
| Death-rates of various Colonial and foreign towns, Comparison of -                                          | 159  |
| — of various countries, Comparison of -                                                                     | 159  |
| Décès par Ages et par Causes pour les Mineurs, Armuriers, et Passementiers pendant les Dix Années 1880-89 - | 59   |
| Duncan (Dr. Ebenezer), remarks in discussion on The Relations of Mortality to Occupation -                  | 65   |

## E.

|                                                                                                                                                |     |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Economic Advantages of Industrial Hygiene. (B. H. Thwaite) -                                                                                   | 127 |
| Einfluss des Alters der Eltern auf die Vitalitaet ihrer Kinder. (Joseph Körösi) -                                                              | 262 |
| — der Alterscombination der Eltern auf die Vitalitaet ihrer Kinder, betreffende Ergebnisse -                                                   | 271 |
| — des Alters der Mutter auf die Todesursache der Kinder: in Combination mit dem Alter des Vaters, Tabelle -                                    | 276 |
| — des Alters des Vaters auf die Todesursache der Kinder: in Combination mit dem Alter der Mutter, Tabelle -                                    | 284 |
| — des Altersunterschiedes der Eltern auf die Vitalitaet ihrer Kinder, betreffende Ergebnisse -                                                 | 270 |
| — des mütterlichen Alters auf die Vitalitaet der kinder -                                                                                      | 263 |
| — des mütterlichen Alters auf die Vitalitaet ihrer Kinder, betreffende Ergebnisse -                                                            | 264 |
| — des väterlichen Alters auf die Vitalitaet seiner Kinder -                                                                                    | 267 |
| — des väterlichen Alters auf die Vitalitaet seiner Kinder, betreffende Ergebnisse -                                                            | 268 |
| Emigration, effects of on European children and women -                                                                                        | 176 |
| Émigration et l'immigration dans la population urbaine et dans la population rurales d'un recensement à l'autre, Changements produits par l' - | 139 |
| Engel (Franz, Bey), Bericht ueber eine Lepra-Enquête in Egypten -                                                                              | 196 |
| État sanitaire, De l'insuffisance d'une Statistique des Maladies pour apprécier l' -                                                           | 23  |



|                                                                                                                                                                                                                                                                                       | Page |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Étrangers dans les villes, Les, Tableau - - - -                                                                                                                                                                                                                                       | 146  |
| — en France, Les - - - -                                                                                                                                                                                                                                                              | 143  |
| — La Demographic des - - - -                                                                                                                                                                                                                                                          | 144  |
| —, La moralité des - - - -                                                                                                                                                                                                                                                            | 145  |
| Ewart (Dr.), remarks in discussion on European life in the Tropics -                                                                                                                                                                                                                  | 185  |
| Examination into the Condition of the Teeth of School Children. Preliminary Report of the Committee appointed by the British Dental Association to conduct the collective Investigation as to the Condition of the Teeth of School Children. (J S. Turner and W. B. Paterson) - - - - | 323  |

## F.

|                                                                                                                     |          |
|---------------------------------------------------------------------------------------------------------------------|----------|
| Fabriques au point de vue Sanitaire, Du Travail dans les. (Prof. M. Kowalkowsky et M. B. Swiatlowsky) - - - -       | 255      |
| Factories, Medical Opinions upon the Hours of Labour in Indian -                                                    | 227      |
| —, necessity for the application of sanitary measures to large -                                                    | 128      |
| —, The effect of reduced Working Hours in - - - -                                                                   | 229      |
| —, The protection of Workmen in, and its Promotion by Museums of Industrial Hygiene. (Dr. Migerka) - - - -          | 110      |
| Factory Act, India, of 1891 -                                                                                       | 219, 222 |
| — and Workshops Act, reasons for non-application of English to India - - - -                                        | 224      |
| — Labour in the Indian Spinning and Weaving Mills. (K. N. Bahadurji, M.D.) - - - -                                  | 235      |
| — Legislation in India, Analysis of Mr. Holt Hallett's paper on. (K. N. Bahadurji, M.D.) -                          | 245      |
| Faria (P. Gareia), Réduction de la Mortalité des grandes Cités : Application à Barcelone - - -                      | 113      |
| Felkin (Robert W., M.D.), Tropical Highlands: their Suitability for European Settlement - -                         | 155      |
| Finger-prints and their Registration as a Means of Personal Identification. (Francis Galton, F.R.S.) - - - -        | 301      |
| Fleury (Docteur C. M.), De la Mortalité des Mineurs des Armuriers, et des Passementiers, à St. Étienne, 1880-1889 - | 57       |

|                                                                                                                                              |     |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Földes (Dr. Bèla), Remarques sur les Périodes d'Observation dans les Recherches démographiques -                                             | 258 |
| Foresters, The Ancient Order of -                                                                                                            | 71  |
| Fowke (Miss Fannie), The Physical Condition of Pauper Children boarded out under the Local Government Orders, 1870, and amended 1889 - - - - | 329 |
| Français hors de France en Europe et les étrangers dans les États européens, Les - - - -                                                     | 151 |
| Friendly Societies - - - -                                                                                                                   | 70  |

## G.

|                                                                                                                                                                                 |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Galton (Francis, F.R.S.), Finger-prints and their Registration as a Means of Personal Identification - - - - -                                                                  | 301 |
| —, Presidential Address -                                                                                                                                                       | 7   |
| —, remarks in discussion on the Influence of Parental Age on the Vitality of Children - - -                                                                                     | 292 |
| Geography, Influence of Clays and Limestones on Medical, illustrated by the Geographical Distribution of Cancer amongst Females in England and Wales. (Alfred Haviland) - - - - | 186 |
| Geology upon Health, and upon the Distribution of Disease, The Influence of. (W. Topley, F.R.S.) - - - - -                                                                      | 195 |
| Giles (Dr. G. M.), The Growth and Development of Anglo-Indian Children - - - - -                                                                                                | 184 |
| Greenleaf (Lieut.-Colonel Chas. R.) and Smart (Major Charles), Personal Identity determined by Scars and other Body Marks -                                                     | 294 |
| Greulich (Herman), remarks in discussion on Thrift - - - -                                                                                                                      | 106 |
| Grimshaw (Dr.), remarks in discussion on Migrations in France and in Europe - - - -                                                                                             | 153 |
| Growth and Development of Anglo-Indian Children. (Dr. G. M. Giles) - - - - -                                                                                                    | 184 |
| Guillaume (Dr.), remarks in discussion on the Statistics of Anthropometry - - - -                                                                                               | 307 |

## H.

|                                                                                                                                                                                                                   | Page |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Hallett (Holt S.), Indian Factory Legislation - - - -                                                                                                                                                             | 219  |
| — — —, remarks in reply -                                                                                                                                                                                         | 244  |
| Hamilton (R.), remarks in discussion on Factory Labour in the Indian Spinning and Weaving Mills - - - -                                                                                                           | 243  |
| Hamilton (Rowland, F.S.S.), Thrift in Great Britain - -                                                                                                                                                           | 67   |
| Hart (Ernest), remarks in discussion on the Physical Condition of Children - - - -                                                                                                                                | 336  |
| — — —, Resolution proposed by Haviland (Alfred), On the Influence of Clays and Limestones on Medical Geography, illustrated by the Geographical Distribution of Cancer amongst Females in England and Wales - - - | 336  |
| Highlands, tropical, effects of removal on Europeans to - -                                                                                                                                                       | 174  |
| — — — for European Settlement, The suitability of. (Surgeon-General Sir William Moore) -                                                                                                                          | 165  |
| Hill station, proper elevation at which to establish a - -                                                                                                                                                        | 168  |
| Hygiene, Instance of the practical application of the science of Industrial - - - -                                                                                                                               | 129  |
| —, neglect of industrial, in England - - - -                                                                                                                                                                      | 128  |
| —, The Economic Advantages of Industrial. (B. H. Thwaite) -                                                                                                                                                       | 127  |

## I.

|                                                                              |     |
|------------------------------------------------------------------------------|-----|
| Identity ascertained by means of Outline-Cards, Interesting Cases of - - - - | 299 |
| Immigration et Émigration—Tableau - - - -                                    | 140 |
| Indian Factory Legislation. (Holt S. Hallett) - - - -                        | 219 |
| Industries concernant le Règne animal, Mortalité de - -                      | 39  |
| — concernant le Règne végétal, Mortalité de - - - -                          | 41  |
| — des Produits Chimiques, Mortalité de - - - -                               | 41  |
| — du Bois, Mortalité de - -                                                  | 36  |
| — des Métaux, Mortalité de -                                                 | 33  |
| — des Tissus, Mortalité de -                                                 | 37  |
| — relatives à la Pierre, à la Chaux et au Sable, Mortalité de                | 32  |

## Page

|                                                                                                                                                                                 |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Influence of Clays and Limestones on Medical Geography, The, illustrated by the Geographical Distribution of Cancer amongst Females in England and Wales. (Alfred Haviland) - - | 186 |
| — of Geology upon Health, and upon the Distribution of Disease, The. (W. Topley, F.R.S.) -                                                                                      | 195 |
| Islands in the tropics for European life, disadvantages of - -                                                                                                                  | 183 |

## K.

|                                                                                                           |     |
|-----------------------------------------------------------------------------------------------------------|-----|
| Körösi (Josef), Einfluss des Alters der Eltern auf die Vitalität ihrer Kinder - - - -                     | 262 |
| —, remarks in discussion on The Relations of Mortality to Occupation - - - -                              | 64  |
| —, remarks in reply - -                                                                                   | 292 |
| Koustari (ouvriers à domicile, etc.), propositions for the improvement of the - - -                       | 254 |
| —, results of the working of the - - -                                                                    | 252 |
| —, work of the - - -                                                                                      | 249 |
| Kowalkowsky (Prof. M.) et (Swiatlowsky, M.B.) Du Travail dans les Fabriques au point de vue Sanitaire - - | 255 |
| Krankenversicherung - - -                                                                                 | 88  |

## L.

|                                                                                                                       |     |
|-----------------------------------------------------------------------------------------------------------------------|-----|
| Leffingwell (Dr.) remarks in discussion on the Influence of Parental Age on the Vitality of Children - - - -          | 292 |
| — — —, remarks in discussion on Factory Labour in the Indian Spinning and Weaving Mills -                             | 244 |
| Lepa-Enquête in Egypten, Bericht ueber eine. (Franz Engel Bey) -                                                      | 196 |
| Leproesen in Egypten nach der Enquête im Jahre 1890, Liste der Levasseur (M.) Les Migrations en France et en Europe - | 214 |
| Longstaff (Dr. C. B.), remarks in discussion on the Influence of Parental Age on the Vitality of Children - - - -     | 131 |
| — — —, remarks in discussion on the Influence of Parental Age on the Vitality of Children - - - -                     | 292 |

## M.

|                                                                                                                              |     |
|------------------------------------------------------------------------------------------------------------------------------|-----|
| Maladies, Possibilité d'éviter les -                                                                                         | 113 |
| Markham (Clements R., C.B.), On the Suitability of Mountainous Regions and of Islands in the Tropics for European Settlement | 178 |

|                                                                                                                                                                                                                              | Page |                                                                                                                                  | Page |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------|------|
| Migerka (Dr.), The Protection of Workmen in Factories, and its Promotion by Museums of Industrial Hygiene - -                                                                                                                | 110  | Moore (Surgeon-General Sir William), The Suitability of Tropical Highlands for European Settlement - - -                         | 165  |
| Migrations en Angleterre, en Allemagne et dans les autres États européens, Les - -                                                                                                                                           | 149  | Morbidité et de la Mortalité par Professions, De la (Dr. Jacques Bertillon) - - -                                                | 23   |
| — en France et en Europe, Les. (M. Levasseur) - -                                                                                                                                                                            | 131  | — par Âge - - -                                                                                                                  | 26   |
| Milliet (Dr.), remarks in discussion on European life in the Tropics -                                                                                                                                                       | 185  | —, Table de - - -                                                                                                                | 24   |
| —, remarks in discussion on the Relations of Mortality to Occupation - - -                                                                                                                                                   | 62   | Mortalité absolue par mois pendant la décade de 1880-89 - -                                                                      | 126  |
| —, remarks in discussion on Thrift - - -                                                                                                                                                                                     | 108  | — par profession. Comparaison des quatre principales Tables de - - -                                                             | 32   |
| Mills, Amount of rest allowed and taken during the day in Indian Spinning and Weaving -                                                                                                                                      | 233  | — des Mineurs, des Armuriers, et des Passementiers, à St. Étienne, 1880-1889, De la. (Docteur C. M. Flenry) -                    | 57   |
| —, amount of work done by each individual per Day, <i>i.e.</i> , the Amount of Physical Energy put forth per day, and the Nature of the Work generally and the Manner in which it is executed in Indian Spinning and Weaving | 234  | — comparée des Mineurs, Armuriers, et Passementiers à partir de l'Âge de 15 Ans -                                                | 61   |
| —, Hours of Work in Indian Spinning and Weaving -                                                                                                                                                                            | 232  | — comparée des Mineurs en Passementiers et Âge moyen pour les principales causes de Décès - - -                                  | 60   |
| —, Periodic Change of Work and Visits to the country in Indian Spinning and Weaving -                                                                                                                                        | 235  | — par Profession. Difficulté de construire et d'interpréter une Table de - - -                                                   | 28   |
| —, Physical Condition of Operatives in Indian Spinning and Weaving - - -                                                                                                                                                     | 238  | — par Professions, De la Morbidité et de la. (Docteur Jacques Bertillon) - -                                                     | 23   |
| —, restrictions under which Work is exacted in Indian Spinning and Weaving -                                                                                                                                                 | 232  | — par Professions et par grands groupes d'Âges comparée à Paris, en Angleterre et en Suisse - - -                                | 52   |
| —, Sufficiency or otherwise of Wages in Indian Spinning and Weaving - - -                                                                                                                                                    | 236  | —, Sur 1,000 Individus du Sexe Masculin de chaque Âge et de chaque Profession, combien de Décès en un An, Paris, 1885-1889 - - - | 54   |
| —, The Conditions of Temperature, Atmospheric Moisture, Ventilation and Light in Indian Spinning and Weaving - -                                                                                                             | 236  | —, tableau relatif au periode de 1880-89 à Barcelone - -                                                                         | 120  |
| —, The Habits and General condition and Life of the Class of People to which the Mill-hands belong in Indian Spinning and Weaving - - -                                                                                      | 237  | Mortality, causes of high - -                                                                                                    | 15   |
| —, The Number of Actual Holidays in a Year and the Period of Absence from Work during a Month in Indian Spinning and Weaving - - -                                                                                           | 235  | — from Phthisis and Lung Diseases of Men (45-65 Years) working in pure and in vitiated Air, Table showing comparative -          | 17   |
|                                                                                                                                                                                                                              |      | — from Phthisis and Respiratory Diseases of Men in various Dust-inhaling Occupations, Table showing Comparative - - -            | 19   |
|                                                                                                                                                                                                                              |      | — in relation to Occupation. (William Ogle, M.D.) - -                                                                            | 12   |
|                                                                                                                                                                                                                              |      | — of Europeans in hot climates, decrease of in recent decades -                                                                  | 172  |



|                                                                                                                                   | Page |
|-----------------------------------------------------------------------------------------------------------------------------------|------|
| Mortality of Liquor Dealers and of Men generally, Table showing Comparative - - -                                                 | 18   |
| — of Men, 25 to 65 Years of Age, in different Occupations, 1881-83, Table showing -                                               | 14   |
| Mountainous Regions and of Islands in the Tropics for European Settlement, On the Suitability of. (Clements R. Markham, C.B.) - - | 178  |

## N.

|                                                         |     |
|---------------------------------------------------------|-----|
| Naturalisation and acclimation, distinction between - - | 175 |
| Newbatt (Mr.), remarks in discussion on Thrift - -      | 108 |

## O.

|                                                                                                              |     |
|--------------------------------------------------------------------------------------------------------------|-----|
| Outline-Cards, Copy of Letter returning, unsatisfactory, and directing a re-examination of the Recruit - - - | 301 |
| — —, Table of Recruits identified by means of, to May 1891                                                   | 300 |
| Occupation, Mortality in relation to. (William Ogle, M.D.) -                                                 | 12  |
| Oddfellows (Manchester Unity), The Independent Order of -                                                    | 71  |
| Ogle (William, M.D.), Mortality in relation to Occupation -                                                  | 12  |
| — remarks in discussion on The Relations of Mortality to Occupation - - -                                    | 67  |

## P.

|                                                                                                                                                                                                                                                                                       |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Paludal fever, altitudes at which observed - - -                                                                                                                                                                                                                                      | 174 |
| Paterson (W. B.) and Turner (J. S.), An Examination into the Condition of the Teeth of School Children. Preliminary Report of the Committee appointed by the British Dental Association to conduct the Collective Investigation as to the Condition of the Teeth of School Children - | 323 |
| Pauper children in the pauper schools, difficulty of obtaining precise death-rate of - -                                                                                                                                                                                              | 333 |
| — —, measures for the improvement of - - -                                                                                                                                                                                                                                            | 329 |

|                                                                                                                                               | Page |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------|
| Périodes d'Observation dans les Recherches démographiques. (Dr. Bèla Földes) - -                                                              | 258  |
| Personal Identity determined by Scars and other Body Marks. (Lieut.-Col. Chas. R. Greenleaf and Maj. Chas. Smart) - -                         | 294  |
| — —, method adopted in the United States Army for determining - - -                                                                           | 295  |
| — — Markings on Accepted Recruits, Directions for Recording the - - -                                                                         | 297  |
| Physical Condition of Children seen in Schools, and the Local Distribution of Conditions of Defective Development. (Francis Warner, M.D.) - - | 315  |
| — — Condition of Pauper Children boarded out under the Local Government Orders, 1870, and amended 1889. (Miss Fannie Fowke) - - -             | 329  |
| Population de la France d'après le lien d'origine, Répartition comparée de la—Tableau - -                                                     | 133  |
| — de la France—Tableau -                                                                                                                      | 137  |
| Professions agricoles, Mortalité de                                                                                                           | 32   |
| — Commerciales, Autres, Mortalité de - - -                                                                                                    | 46   |
| — exposés à l'Intoxication saturnine, Mortalité de - -                                                                                        | 42   |
| — Libérales, Mortalité de -                                                                                                                   | 46   |
| Proportion du Nombre des Étrangers à la Population totale dans les États d'Europe. Tableau -                                                  | 152  |
| Protection of Workmen in Factories, and its Promotion by Museums of Industrial Hygiene. (Dr. Migerka) - - -                                   | 110  |

## R.

|                                                                                                           |     |
|-----------------------------------------------------------------------------------------------------------|-----|
| Rawson (Sir R.), remarks in discussion on the Influence of Parental Age on the Vitality of Children - - - | 292 |
| "Red legs," origin of - - -                                                                               | 182 |
| Réduction de la Mortalité des grandes Cites: Application à Barcelone. (P. Garcia Faria) -                 | 113 |
| Remarques sur les Périodes d'Observation dans les Recherches démographiques. (Dr. Bèla Földes) - - -      | 258 |
| Resolutions, Special - - -                                                                                | 336 |



|                                                                                                                                                  | Page |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Résultats statistiques de l'Anthropométrie appliquée à l'Identification des Personnes. (Dr. Jacques Bertillon et Dr. Alphonse Bertillon) - - - - | 303  |
| Results of Anthropometry at Cambridge. (Dr. John Venn) -                                                                                         | 308  |
| Richards (J. Peake), remarks in discussion on the Physical Condition of Children - -                                                             | 336  |
| Russie, Le Travail à Domicile en. (Madame Alexandra Tkatchef) -                                                                                  | 246  |

## S.

|                                                                                                                               |     |
|-------------------------------------------------------------------------------------------------------------------------------|-----|
| St. Étienne, De la Mortalité des Mineurs, des Armuriers, et des Passementiers, à 1880-1889. (Dr. C. M. Fleury) - -            | 57  |
| Savings Banks, advantages of -                                                                                                | 68  |
| Schloss (David F.), remarks in discussion on Thrift - -                                                                       | 106 |
| "Sharing-out clubs" as a form of thrift - - - -                                                                               | 69  |
| Singer (Dr.), remarks in discussion on the Influence of Parental Age on the Vitality of Children -                            | 292 |
| Smart (Major Chas.) and Greenleaf (Lieut.-Colonel Chas R.), Personal Identity determined by Scars and other Body Marks -      | 294 |
| Smith (Adolphe), Resolution seconded by - - - -                                                                               | 336 |
| Spinning and Weaving Mills, Factory Labour in the Indian. (K. N. Bahadurji, M.D.) - -                                         | 232 |
| — —, Hours of Work in Indian - - - -                                                                                          | 232 |
| Stokvis (Prof. Dr.), remarks in discussion on European life in the Tropics - - - -                                            | 185 |
| Suitability, The, of Mountainous Regions and of Islands in the Tropics for European Settlement. (Clements R. Markham, C.B.) - | 178 |
| — of Tropical Highlands for European Settlement. (Surgeon-Gen. Sir William Moore) -                                           | 165 |
| Swiatlowsky (M.B.) et Kowalkowsky (Prof. M.), Du Travail dans les Fabriques au point de vue Sanitaire - - - -                 | 255 |

## T.

|                                                                                                                                                                                                                                                                                       | Page |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Tait (P. M.), remarks in discussion on Thrift - - - -                                                                                                                                                                                                                                 | 107  |
| Teeth of School Children, An Examination into the Condition of the. (J. S. Turner and W. B. Paterson) - - - -                                                                                                                                                                         | 323  |
| — —, Table showing the aggregate and relative Results of an Examination of the -                                                                                                                                                                                                      | 328  |
| Thrift in Great Britain. (Rowland Hamilton) - - - -                                                                                                                                                                                                                                   | 67   |
| Thwaite (B. H.), The Economic Advantages of Industrial Hygiene - - - -                                                                                                                                                                                                                | 127  |
| Tkatchef (Madame Alexandra), Le Travail à Domicile en Russie -                                                                                                                                                                                                                        | 249  |
| Topley (W., F.R.S.), The Influence of Geology upon Health and upon the Distribution of Disease                                                                                                                                                                                        | 195  |
| To what extent are Tropical Altitudes adapted for Settlement by Europeans. (C. L. van der Burg, M.D.) - - - -                                                                                                                                                                         | 170  |
| Transports, Mortalité de - - -                                                                                                                                                                                                                                                        | 43   |
| Travail à Domicile en Russie. (Madame Alexandra Tkatchef) -                                                                                                                                                                                                                           | 249  |
| — dans les Fabriques au point de vue Sanitaire. (Prof. M. Kowalkowsky et M. B. Swiatlowsky) - - - -                                                                                                                                                                                   | 255  |
| Tropical Highlands: their Suitability for European Settlement. (Robert W. Felkin, M.D.) -                                                                                                                                                                                             | 155  |
| Tropics for European Settlement, On the Suitability of Mountainous Regions and of Islands in the. (Clements R. Markham, C.B.) -                                                                                                                                                       | 178  |
| —, Possibility of the propagation of pure Europeans in the -                                                                                                                                                                                                                          | 177  |
| Trustee Savings Banks - - -                                                                                                                                                                                                                                                           | 70   |
| Turner (J. S.) and Paterson (W. B.), An Examination into the Condition of the Teeth of School Children. Preliminary Report of the Committee appointed by the British Dental Association to conduct the collective Investigation as to the Condition of the Teeth of School Children - | 323  |

## U.

|                            |   |
|----------------------------|---|
| Unfallversicherung - - - - | 8 |
|----------------------------|---|

| V.                                                                                                          | Page |
|-------------------------------------------------------------------------------------------------------------|------|
| Valliant (Dr.), remarks in discussion on The Relations of Mortality to Occupation - - -                     | 62   |
| van der Burg (C. L., M.D.), To what extent are Tropical Altitudes adapted for Settlement by Europeans - - - | 170  |
| Venn (Dr. John), Results of Anthropometry at Cambridge -                                                    | 308  |
| Vie humaine, La - - -                                                                                       | 122  |
| Villes, Déplacement des campagnes vers - - -                                                                | 131  |
| von Jurasehek (Prof. F.), remarks in discussion on Thrift - -                                               | 107  |
| ——— Resolution seconded by—                                                                                 | 337  |
| von Mayr (Dr. Georg), Bericht ueber die sozialstatistische Ausbeute der Arbeiterversicherung -              | 84   |
| ———, Resolution proposed by                                                                                 | 337  |

| W.                                                                                                                                                  | Page |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Wadia (The Hon. N. W.), remarks in discussion on Factory Labour in the Indian Spinning and Weaving Mills - - -                                      | 242  |
| Warner (Francis, M.D.), The Physical Condition of Children seen in Schools, and the Local Distribution of Conditions of Defective Development - - - | 315  |
| Whymper (F. H.), The Board and Lodging of London Work-girls -                                                                                       | 76   |
| Work-girl Employers, Life in the Establishments of - - -                                                                                            | 76   |
| Work-girls, Life in "Homes" -                                                                                                                       | 79   |
| ——, Life in private Lodgings                                                                                                                        | 81   |
| ——, The Board and Lodging of London (F. H. Whymper) -                                                                                               | 76   |

| Z.                                                      |     |
|---------------------------------------------------------|-----|
| Zones, Colonization - - -                               | 163 |
| ——, influence of the climatological, upon disease - - - | 160 |



# VOLUME XI.

## INDIAN HYGIENE AND DEMOGRAPHY.

### Table of Contents and Index.

#### TABLE OF CONTENTS.

##### Proceedings of the Indian Committee.

|                                                                                                                                    | Page |
|------------------------------------------------------------------------------------------------------------------------------------|------|
| Address by the Chairman - - - - -                                                                                                  | 13   |
| Sanitary Progress in India - - - - -                                                                                               | 15   |
| Progress of Sanitation and Preventive Medicine in Rajputana - - - - -                                                              | 89   |
| Discussion - - - - -                                                                                                               | 99   |
| Our Sanitary Wants in the Bombay Presidency - - - - -                                                                              | 113  |
| Notes on the Hygienic and Demographic Condition of India - - - - -                                                                 | 128  |
| The Sanitary Condition of the Towns and Villages in the Bombay Presidency, and the means for improving the same - - - - -          | 136  |
| Legislative Action as applied to Village Sanitation in India - - - - -                                                             | 145  |
| Discussion - - - - -                                                                                                               | 148  |
| Notes on the Topography and Sanitation of Bhavnagar - - - - -                                                                      | 149  |
| How can the Masses in India be made to comprehend the elementary principles of Sanitary Science? - - - - -                         | 157  |
| Some of the practical Measures needed for the Development of State Hygiene in India - - - - -                                      | 159  |
| Sanitation in Ceylon - - - - -                                                                                                     | 162  |
| The Sanitation of the City of Ahmedabad - - - - -                                                                                  | 166  |
| The City of Bombay - - - - -                                                                                                       | 170  |
| Sanitary Improvements in the City of Calcutta - - - - -                                                                            | 173  |
| The City of Rangoon - - - - -                                                                                                      | 178  |
| The Desirability of establishing a special Tropical Section in connexion with future International Congresses of Hygiene - - - - - | 183  |
| Discussion - - - - -                                                                                                               | 184  |

**Further Papers and Discussions,**  
reprinted from Volumes I., VII., VIII., IX., and X.

|                                                                             | Page |
|-----------------------------------------------------------------------------|------|
| The Prevention of Fever in India - - - - -                                  | 189  |
| Sanitation in India - - - - -                                               | 197  |
| The Water-supply of India - - - - -                                         | 203  |
| Enteric fever in the European Army in India ; its etiology and prevention - | 210  |
| Hygiene for the Zenanas of India - - - - -                                  | 216  |
| Indian factory legislation - - - - -                                        | 222  |
| Factory labour in the Indian spinning and weaving mills -                   | 235  |
| Discussion - - - - -                                                        | 245  |
| An analysis of Mr. Holt Hallett's paper on Factory legislation in India -   | 248  |
| The suitability of Tropical Highlands for European settlement -             | 252  |

INDEX.





## INDEX.

|                                                                                                                                 |     | Page |
|---------------------------------------------------------------------------------------------------------------------------------|-----|------|
| <b>A.</b>                                                                                                                       |     |      |
| Address, opening. (Sir Mount-<br>stuart Grant Duff) - -                                                                         | 13  |      |
| Ahmedabad, mortality in - -                                                                                                     | 163 |      |
| —, sanitary improvement of - -                                                                                                  | 168 |      |
| —, Sanitation of the City of.<br>(Runchorelal Chotalall) - -                                                                    | 166 |      |
| —, situation of - -                                                                                                             | 166 |      |
| Aitken (Mr. Russel), remarks in<br>discussion on progress of sanita-<br>tion and preventive medicine in<br>India - - - -        | 105 |      |
| Ajmere, sanitary improvements in -                                                                                              | 88  |      |
| Ardeshir (Dinshah), Some of the<br>practical measures needed for<br>the development of state hygiene<br>in India - - - -        | 159 |      |
| Army in India, sanitary condition<br>of, Royal Commission on, 1863 -                                                            | 15  |      |
| Ashburner (Lionel), Legislative<br>action as applied to village sani-<br>tation in India - - - -                                | 145 |      |
| Assam, death-rate from fever and<br>cholera in - - - -                                                                          | 50  |      |
| —, sanitary improvements in - -                                                                                                 | 87  |      |
| —, table showing deaths of<br>children in - - - -                                                                               | 50  |      |
| Bahadurji (Professor K. N.),<br>Analysis of Mr. Holt Hallett's<br>paper on factory legislation in<br>India - - - -              | 248 |      |
| — —, Factory labour in the<br>Indian spinning and weaving<br>mills - - - -                                                      | 235 |      |
| — —, remarks in discussion<br>on progress of sanitation and<br>preventive medicine in India -                                   | 112 |      |
| <b>B.</b>                                                                                                                       |     |      |
| Barraek plan, standard, a mistake -                                                                                             | 67  |      |
| Bathing and cleanliness of the<br>Hindoos - - - -                                                                               | 133 |      |
| Bengal, death rate from fever and<br>cholera in - - - -                                                                         | 40  |      |
| —, death-rate of children in - -                                                                                                | 40  |      |
| —, sanitary improvements in - -                                                                                                 | 70  |      |
| Berar, decrease of cholera mortality<br>in - - - -                                                                              | 49  |      |
| —, sanitary improvements in - -                                                                                                 | 86  |      |
| —, results of vaccination in - -                                                                                                | 49  |      |
| Bhavnagar, climate of the districts<br>of - - - -                                                                               | 150 |      |
| —, dispensaries in - - - -                                                                                                      | 154 |      |
| —, sanitation of - - - -                                                                                                        | 150 |      |
| —, Notes on the topography and<br>sanitation of. (B. Byramjee) -                                                                | 149 |      |
| —, statistical table of - - - -                                                                                                 | 154 |      |
| —, the city of - - - -                                                                                                          | 150 |      |
| Bhownaggee (M. M.), remarks<br>in discussion on legislative<br>action as applied to village sani-<br>tation - - - -             | 148 |      |
| Bidie (Surgeon-General), remarks<br>in discussion on progress of sani-<br>tation and preventive medicine<br>in India - - - -    | 112 |      |
| Births and deaths, imperfect regis-<br>tration of - - - -                                                                       | 25  |      |
| Body, the physical development of,<br>in athletic sports - - - -                                                                | 221 |      |
| Bombay Commission of 1884, re-<br>port of - - - -                                                                               | 224 |      |
| Bombay, sanitary improvements in                                                                                                | 76  |      |
| —, population of - - - -                                                                                                        | 170 |      |
| — Presidency, death-rate among<br>children in the - - - -                                                                       | 43  |      |
| — —, death-rate in the - - - -                                                                                                  | 43  |      |
| — —, Our sanitary wants in.<br>(Surgeon-Major K. R. Kirtikar)                                                                   | 113 |      |
| — —, Sanitary condition of the<br>towns and villages in, and the<br>means for improving the same.<br>(K. V. Dhurandhar) - - - - | 136 |      |
| —, table showing the remarkable<br>decline of cholera in the city of -                                                          | 57  |      |
| —, The city of. (E. C. K. Olli-<br>vant) - - - -                                                                                | 170 |      |
| —, Village Sanitation Act I.,<br>1889 - - - -                                                                                   | 145 |      |
| —, Village Sanitation Act I. of<br>1889, objections to - - - -                                                                  | 146 |      |
| British Burmah, table showing<br>mortality for the years 1872 to<br>1890 inclusive - - - -                                      | 52  |      |
| —, Rajpootana, sanitary im-<br>provements in - - - -                                                                            | 88  |      |

|                                                                                 | Page |
|---------------------------------------------------------------------------------|------|
| Burial grounds in India - -                                                     | 132  |
| — grounds in Rangoon - -                                                        | 181  |
| Burmah, sanitary improvements in                                                | 88   |
| Burne (Sir Owen), vote of thanks to Chairman - - -                              | 184  |
| Byramjee (Burjorjee), Notes on the topography and sanitation of Bhavnagar - - - | 149  |

## C.

|                                                                                         |     |
|-----------------------------------------------------------------------------------------|-----|
| Calcutta, deaths from fevers, cholera diarrhœa, and dysentery, and small-pox in - -     | 59  |
| —, cholera mortality in - -                                                             | 175 |
| —, Sanitary improvements in the city of. (H. J. S. Cotton) -                            | 173 |
| —, ventilation of the city of -                                                         | 176 |
| Carpenter (Miss), founder of the National Indian Association -                          | 216 |
| Caste-system in India - -                                                               | 134 |
| Cattle-housing in India - -                                                             | 133 |
| Census returns of Bhavnagar -                                                           | 150 |
| Central Provinces, deaths of children in the - - -                                      | 45  |
| — —, sanitary improvements in - - -                                                     | 84  |
| — —, mortality in - - -                                                                 | 44  |
| Cesspools, land honeycombed with, up to 1873 - - -                                      | 179 |
| Ceylon, diseases most prevalent in — Sanitation in. (Solomon Fernando) - - -            | 162 |
| —, situation of - - -                                                                   | 162 |
| Cholera, importation of, into Ceylon from India - - -                                   | 164 |
| — in Bhavnagar - - -                                                                    | 156 |
| — in Ceylon - - -                                                                       | 164 |
| —, incubation period of - -                                                             | 39  |
| —, marked periodicity in the mortality from - - -                                       | 175 |
| — mortality in Calcutta - -                                                             | 175 |
| —, origin, spread, and prevention of - - -                                              | 36  |
| Chotalall (Ranchorelal.) Sanitation of the city of Ahmedabad in the Bombay Presidency - | 166 |
| Clothing in India - - -                                                                 | 131 |
| Colombo, dry-earth system of conservancy in - - -                                       | 165 |
| Colonists, pensioners do not survive as, in India - - -                                 | 256 |
| Commission, Royal, of inquiry into the sanitary condition of the army in India - - -    | 15  |

|                                                                                                                 | Page |
|-----------------------------------------------------------------------------------------------------------------|------|
| Condition of India, hygienic and demographic. (R. B. Vishram Ramji Ghole) - - -                                 | 128  |
| Conservancy, advisability of the system of dry-earth - -                                                        | 26   |
| —, dry-earth system of - -                                                                                      | 26   |
| — in Ajmere, Ulwar, and Jeypore - - -                                                                           | 96   |
| —, Moule's dry-earth system of -                                                                                | 26   |
| — of public institutions, improvement in - - -                                                                  | 26   |
| Cook (Surgeon-General H.), remarks in discussion on factory labour in the Indian spinning and weaving mills - - | 245  |
| Cooper (Ardaseer D.), remarks in discussion on legislative action as applied to village sanitation -            | 148  |
| Coorg, death-rate per 1,000 of population - - -                                                                 | 51   |
| —, sanitary improvements in -                                                                                   | 87   |
| Cordons, sanitary, proposed regulation of Indian pilgrimages by -                                               | 37   |
| —, sanitary, regulation of Indian pilgrimages by, difficulties in -                                             | 37   |
| Corfield (Professor) on proposal to establish a special Tropical Section in future Congresses -                 | 183  |
| Cotton (H. J. S.). Sanitary improvements in the city of Calcutta - - -                                          | 173  |
| "Cotton soil" of the Deccan -                                                                                   | 137  |
| Crowding in the sick-room often excessive - - -                                                                 | 218  |
| "Cummerbund," value of - -                                                                                      | 191  |

## D.

|                                                                                 |     |
|---------------------------------------------------------------------------------|-----|
| Dead, disposal of the, in the Bombay Presidency - -                             | 142 |
| Death-rate among children in the Bombay Presidency - -                          | 43  |
| — — from fever and cholera in Bengal in the years 1881-1890                     | 40  |
| — — from smallpox in the city of Madras - - -                                   | 42  |
| — — in the Bombay Presidency from different causes from 1871-1890 inclusive - - | 43  |
| — — of Calcutta - - -                                                           | 174 |
| — — of children in the Punjab - - -                                             | 47  |
| — — of children in Bengal -                                                     | 40  |

|                                                                                                                                          | Page    |
|------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Death-rate of children under six years of age in the Madras Presidency for the years 1871-1890 inclusive - - -                           | 41      |
| — — — of population of India generally - - -                                                                                             | 53      |
| — — — of Rangoon, aggregate -                                                                                                            | 182     |
| — — — of the city of Ahmedabad in connexion with the disposal of night-soil, return showing variations in - - -                          | 169     |
| — — — per 1,000 of population in the Punjab from 1868-90 inclusive - - -                                                                 | 46      |
| Deaths, imperfect registration of births and - - -                                                                                       | 25      |
| —, ratio of, among children under one year of age in the North-West Provinces and Oude                                                   | 48      |
| Demon-worship - - -                                                                                                                      | 135     |
| Dhurandhar (K. V.), The sanitary condition of the towns and villages in the Bombay Presidency and the means for improving the same - - - | 136     |
| Dispensaries and hospitals in India                                                                                                      | 24      |
| — in Bhavnagar - - -                                                                                                                     | 154     |
| Drainage in Ceylon generally unsatisfactory - - -                                                                                        | 165     |
| — in India - - -                                                                                                                         | 29, 132 |
| —, subsoil - - -                                                                                                                         | 31      |
| —, surface and subsoil, of the lands irrigated - - -                                                                                     | 107     |
| — system of Calcutta - - -                                                                                                               | 173     |
| —, table of localities where accomplished - - -                                                                                          | 30      |
| — works in Bombay - - -                                                                                                                  | 171     |
| Drinking habits in India - - -                                                                                                           | 133     |
| Dry-earth system of conservancy, Moule's - - -                                                                                           | 26      |
| — — — system in Columbo and Kandy - - -                                                                                                  | 165     |
| Dry system of conservancy introduced by Dr. Hathaway - - -                                                                               | 26      |
| Duff (Sir Mountstuart Grant) opening address - - -                                                                                       | 13      |
| — — —, vote of thanks to the native gentlemen of India who had assisted the Congress - - -                                               | 184     |
| Dwellings in the Bombay Presidency - - -                                                                                                 | 137     |

**E.**

|                                             |     |
|---------------------------------------------|-----|
| Earth-closets in India - - -                | 199 |
| Education, rapid progress of in India - - - | 23  |

|                                                                                                                           | Page |
|---------------------------------------------------------------------------------------------------------------------------|------|
| Enteric fever, identical with the disease seen in Europe - - -                                                            | 215  |
| — — —, increased predisposition to at an early age, a characteristic - - -                                                | 213  |
| — — — in the European army in India; its etiology and prevention (Prof. J. Lane Notter) -                                 | 210  |
| — — —, months when virulent form is prevalent - - -                                                                       | 214  |
| — — —, table showing the average annual death-rate from, in British soldiers at different periods of residence in India - | 213  |
| Excreta, the removal of - - -                                                                                             | 139  |
| Exercises, bodily, practice of, in India - - -                                                                            | 133  |

**F.**

|                                                                                                                          |          |
|--------------------------------------------------------------------------------------------------------------------------|----------|
| Factories, medical opinions upon the hours of labour in Indian -                                                         | 230      |
| —, the effect of reduced working hours in - - -                                                                          | 232      |
| Factory Act, India - - -                                                                                                 | 222, 225 |
| —, labour in the Indian spinning and weaving mills. (K. N. Bahadurji) - - -                                              | 235      |
| — legislation in India. (Holt S. Hallett) - - -                                                                          | 222      |
| — legislation in India, analysis of Mr. Holt Hallett's paper on. (K. N. Bahadurji) - - -                                 | 248      |
| Fasting in India - - -                                                                                                   | 134      |
| Fatalism, the doctrine of - - -                                                                                          | 134      |
| Fernando (Solomon), Sanitation in Ceylon - - -                                                                           | 162      |
| Fever, cause of sickness and mortality among young soldiers in India - - -                                               | 66       |
| —, death-rate from, in Bengal in the years 1881-1890 - - -                                                               | 40       |
| —, enteric, identical with the disease seen in Europe - - -                                                              | 215      |
| —, —, increased predisposition to at an early age, a characteristic - - -                                                | 213      |
| —, —, in the European Army in India; its etiology and prevention. (Prof. J. Lane Notter) -                               | 210      |
| —, —, months when virulent form is prevalent - - -                                                                       | 214      |
| —, —, table showing the average annual death-rate from, in British soldiers at different periods of residence in India - | 213      |



|                                                                                  | Page |
|----------------------------------------------------------------------------------|------|
| Fever, in India, the prevention of,<br>(Surgeon-General Sir William Moore) - - - | 189  |
| —, mortality from - - -                                                          | 176  |
| Filters at railway stations - - -                                                | 206  |
| Fish as food in India - - -                                                      | 20   |
| Food in India - - -                                                              | 131  |
| Food-supply, improvement in, in<br>India - - -                                   | 20   |
| — — in the Bombay Presidency                                                     | 142  |
| Forests, extension of, a true<br>sanitary reform - - -                           | 93   |
| Francis (Surgeon-General, C.R.),<br>Hygiene for the Zenanas of<br>India - - -    | 216  |

## G.

|                                                                                                                          |     |
|--------------------------------------------------------------------------------------------------------------------------|-----|
| Gaïton (Sir Douglas), on desira-<br>bility of establishing a special<br>Tropical Section in future Con-<br>gresses - - - | 183 |
| Gardens in Bombay, public - - -                                                                                          | 172 |
| Ghole (R. B. Vishram Ramji),<br>Notes on the Hygienic and<br>Demographic condition of India -                            | 128 |
| Government, local self-, by muni-<br>cipalities - - -                                                                    | 19  |

## H.

|                                                                                                                             |           |
|-----------------------------------------------------------------------------------------------------------------------------|-----------|
| Halalcore system - - -                                                                                                      | 198       |
| Hallett (Holt, S.), India factory<br>legislation - - -                                                                      | 222, 247  |
| Hamilton (R.), remarks in dis-<br>cussion on factory labour in the<br>Indian spinning and weaving<br>mills - - -            | 246       |
| Harvey (Brigade-Surgeon), re-<br>marks in discussion on progress<br>of sanitation and preventive<br>medicine in India - - - | 104       |
| Hathaway (Dr.), dry system of<br>conservancy introduced by - - -                                                            | 26        |
| Hendley (Surgeon-Major T. Hol-<br>bein), Progress of sanitation<br>and preventive medicine in<br>Rajputana - - -            | 89        |
| Highlands, tropical, for European<br>settlement, suitability of. (Sur-<br>geon-General Sir William Moore)                   | 252       |
| Hill station, proper elevation at<br>which to establish a - - -                                                             | 255       |
| Hospital, accommodation of the<br>Civil General, in Rangoon - - -                                                           | 181       |
| Hospitals and dispensaries in India<br>— in Bombay - - -                                                                    | 24<br>172 |

|                                                                      |     |
|----------------------------------------------------------------------|-----|
| Houses in India - - -                                                | 130 |
| Hygiene for the Zenanas of India,<br>(Surgeon-General C. R. Francis) | 216 |

## I.

|                                                                                                    |     |
|----------------------------------------------------------------------------------------------------|-----|
| Improvements, Appendix giving<br>the principal, effected each year<br>in the different Provinces - | 70  |
| India, death-rate of European<br>soldiers in - - -                                                 | 53  |
| —, sanitary progress in. (Sur-<br>geon-General Sir William Moore)                                  | 15  |
| —, situation and soil of - - -                                                                     | 136 |
| Infants, feeding of - - -                                                                          | 218 |
| Inspection of vessels, medical, in<br>Ceylon - - -                                                 | 163 |
| Irrigation, increase of food de-<br>pendent on extension of - - -                                  | 21  |
| —, injurious effects of, on the<br>spleens of the people - - -                                     | 21  |

## J.

|                                                 |     |
|-------------------------------------------------|-----|
| Jails of Native States, improvement<br>in - - - | 97  |
| Jatras and fairs in India - - -                 | 134 |

## K.

|                                                                                           |         |
|-------------------------------------------------------------------------------------------|---------|
| Kandy, dry-earth system in - - -                                                          | 165     |
| Kathiawar, the Province of - - -                                                          | 149     |
| Khalcoovas - - -                                                                          | 28, 167 |
| —, result of the system of - - -                                                          | 167     |
| Kirtikar (Surgeon-Major K. R.),<br>Our sanitary wants in the Bom-<br>bay Presidency - - - | 113     |
| Kulkuas - - -                                                                             | 28, 167 |

## L.

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| Latham (Baldwin), remarks in<br>discussion on progress of sanita-<br>tion and preventive medicine<br>in India - - - | 111 |
| — —, Sanitation in India - - -                                                                                      | 197 |
| Lawson (Sir Charles), vote of<br>thanks to chairman - - -                                                           | 184 |
| Legislative action as applied to<br>village sanitation in India. (L.<br>Ashburner) - - -                            | 145 |
| Leprosy in Ceylon - - -                                                                                             | 162 |
| — in India - - -                                                                                                    | 54  |
| Lying-in chamber, insanitary con-<br>dition of - - -                                                                | 217 |



|                                     | Page |                                      | Page |
|-------------------------------------|------|--------------------------------------|------|
| <b>M.</b>                           |      |                                      |      |
| Madras, death-rate from small-pox   |      | Mortality from cholera in Calcutta   | 175  |
| in the city of - - - -              | 42   | — from cholera, marked periodi-      |      |
| —, deaths from cholera in -         | 58   | city in the - - - -                  | 175  |
| —, sanitary improvements in -       | 74   | — from fever - - - -                 | 176  |
| — Presidency, death-rate of         |      | — in Berar from cholera -            | 49   |
| children under six years of age -   | 41   | — in the Madras Presidency,          |      |
| — —, mortality in - - -             | 41   | table of - - - -                     | 41   |
| Markets in Bombay - - -             | 172  | —, table of, in some of the          |      |
| — in Rangoon - - - -                | 181  | principal towns of Europe and        |      |
| Marriages, early, and unequal -     | 134  | America in 1872 - - -                | 124  |
| McGann (Brigade-Surgeon), re-       |      | Monle's dry-earth system of con-     |      |
| marks in discussion on progress     |      | servancy - - - -                     | 26   |
| of sanitation and preventive        |      | Municipalities, establishment of, in |      |
| medicine in India - - -             | 108  | 1867 in Ceylon - - -                 | 164  |
| Measles in Bhavnagar - - -          | 156  | —, local self-government by -        | 19   |
| Medicine, progress of sanitation    |      | <b>N.</b>                            |      |
| and preventive, in Rajputana        |      | North-West Provinces and Oude,       |      |
| (Surgeon-Major T. H. Hendley)       | 89   | deaths among children under          |      |
| Milk-supply, attention given to, in |      | one year of age in - - -             | 48   |
| India - - - -                       | 181  | — — Provinces and Oude,              |      |
| Mills, hours of work in spinning    |      | sanitary improvements in -           | 80   |
| and weaving - - - -                 | 235  | — — Provinces, ratio of              |      |
| —, spinning and weaving,            |      | deaths per 1,000 of population -     | 48   |
| amount of rest allowed and          |      | Notter (Professor J. Lane), En-      |      |
| taken during the day in - -         | 236  | teric fever in the European          |      |
| —, —, amount of work done           |      | army in India; its etiology and      |      |
| by each individual per day in -     | 237  | prevention - - - -                   | 210  |
| —, —, periodic change of            |      | <b>O.</b>                            |      |
| work and visits to the country -    | 238  | Ollivant (E. C. K.), remarks in      |      |
| —, —, physical condition of         |      | discussion on progress of sani-      |      |
| operatives in - - - -               | 241  | tation and preventive medicine       |      |
| —, —, restrictions under            |      | in India - - - -                     | 100  |
| which work is exacted - - -         | 235  | — —, The city of Bombay -            | 170  |
| —, —, wages in - - - -              | 239  | Opium for children, use of - -       | 94   |
| —, —, the conditions of tem-        |      | —, use of as a prophylactic -        | 193  |
| perature, atmospheric moisture,     |      | —, use of, in India - - -            | 133  |
| ventilation and light in - -        | 239  | Osmond (Mr.), remarks in dis-        |      |
| —, —, the habits and general        |      | cussion on progress of sanitation    |      |
| condition and life of the mill-     |      | and preventive medicine in India     | 113  |
| hands in - - - -                    | 240  | Oude, sanitary improvements in -     | 80   |
| —, —, the number of actual          |      | —, ratio of deaths per 1,000 of      |      |
| holidays in a year, and the         |      | population - - - -                   | 48   |
| period of absence from work         |      | Over-ventilation as a cause of chill | 67   |
| during a month - - - -              | 238  | <b>P.</b>                            |      |
| Moore (Surgeon-General Sir          |      | Parangi, a skin-eruption in Ceylon   | 162  |
| William), Sanitary progress in      |      | Polyandry among the Nairs, pre-      |      |
| India - - - -                       | 15   | valence of - - - -                   | 134  |
| — —, The prevention of              |      | Pond water - - - -                   | 206  |
| fever in India - - - -              | 189  | Poudrette, manufacture of - -        | 199  |
| — —, The suitability of tro-        |      | Prickly-pear - - - -                 | 132  |
| pical highlands for European        |      |                                      |      |
| settlement - - - -                  | 252  |                                      |      |
| Mortality, average annual, per      |      |                                      |      |
| 1,000 of European soldiers in       |      |                                      |      |
| India - - - -                       | 211  |                                      |      |

|                                                                                                                        | Page |
|------------------------------------------------------------------------------------------------------------------------|------|
| Pringle (Brigade-Surgeon R.), remarks in discussion on progress of sanitation and preventive medicine in Rajputana - - | 99   |
| — —, The water-supply of India - - -                                                                                   | 203  |
| Prisons in Ceylon - -                                                                                                  | 166  |
| Privies in India - -                                                                                                   | 130  |
| —, system of deep-well, in Ahmedabad - - -                                                                             | 167  |
| Punjab, death-rate per 1,000 of population in the - -                                                                  | 46   |
| —, sanitary improvements in the                                                                                        | 83   |

## Q.

|                                    |     |
|------------------------------------|-----|
| Quarrels, effect of, on the people | 134 |
|------------------------------------|-----|

## R.

|                                                                                                           |     |
|-----------------------------------------------------------------------------------------------------------|-----|
| Railways in Bombay - -                                                                                    | 172 |
| —, sanitary influence of -                                                                                | 22  |
| Rainfall in Bhavnagar - -                                                                                 | 156 |
| Rajputana capital, ordinary sanitary conditions in a typical - -                                          | 89  |
| —, Progress of sanitation and preventive medicine in. (Surgeon-Major T. Holbein Hendley) -                | 89  |
| —, water-supply in - -                                                                                    | 96  |
| Rangoon, population of - -                                                                                | 181 |
| —, The city of. (Major R. C. Temple) - - -                                                                | 178 |
| Registration of births and deaths, imperfections of - -                                                   | 25  |
| Reh - - -                                                                                                 | 21  |
| Report of the Royal Commission on the sanitary condition of the army in India in 1863 - -                 | 15  |
| Results of sanitation, ratio of deaths per 1,000 of population in the North West Provinces and Oude - - - | 48  |
| — —, table showing death-rate per 1,000 of population in Coorg - - -                                      | 51  |
| — —, table showing mortality in British Burmah for the years from 1872 to 1890 inclusive - - -            | 52  |
| — —, table showing the death-rate from fever and cholera in Assam during the 10 years ending 1890 - - -   | 50  |
| — —, table showing the death-rate of European soldiers in India, from 1881–1888 inclusive                 | 53  |

## Page

|                                                                                        |     |
|----------------------------------------------------------------------------------------|-----|
| Results of sanitation, table showing the number of deaths from cholera in Madras - - - | 58  |
| — —, table showing the remarkable decline of cholera in the city of Bombay - - -       | 57  |
| River water - - -                                                                      | 206 |
| Roads, sanitary influence of - -                                                       | 22  |
| — in India - - -                                                                       | 133 |
| — in the Bombay Presidency -                                                           | 137 |
| —, maintenance of, in Bombay -                                                         | 171 |
| Roadway of the city of Calcutta -                                                      | 174 |

## S.

|                                                                                                                      |     |
|----------------------------------------------------------------------------------------------------------------------|-----|
| Salt supply in India - - -                                                                                           | 20  |
| Sanitary progress in India. (Surgeon-General Sir William Moore) -                                                    | 15  |
| — reform, suggested - -                                                                                              | 117 |
| — science, How can the masses in India be made to comprehend the elementary principles of. (Jamsetjee N. Unvala) - - | 157 |
| — wants in the Bombay Presidency. (Surgeon-Major K. R. Kirtikar) - - -                                               | 113 |
| — works published in India -                                                                                         | 24  |
| Sanitation Act, I of 1889, the Bombay Village - - -                                                                  | 145 |
| — and preventive medicine in Rajputana. (Surgeon-Major T. Holbein Hendley) - - -                                     | 89  |
| —, difficulties in the way of - 61, 116                                                                              |     |
| —, halaleore system of - -                                                                                           | 198 |
| — in Ceylon. (Solomon Fernando) - - -                                                                                | 162 |
| — in India. (Baldwin Latham) -                                                                                       | 192 |
| —, Military - - -                                                                                                    | 64  |
| —, results of, table showing death-rate from small-pox in the city of Madras - - -                                   | 42  |
| — —, table showing death-rate per 1,000 of population in the Punjab from 1868–90 inclusive                           | 46  |
| — —, table showing mortality from different diseases in the Central Provinces for 20 years -                         | 44  |
| — —, table showing the death-rate among children in the Bombay Presidency for the years 1879–90 inclusive - - -      | 43  |
| — —, table showing the death-rate from fever and cholera in Bengal, during the years 1881–90 inclusive - -           | 40  |

|                                                                                                                                             | Page |
|---------------------------------------------------------------------------------------------------------------------------------------------|------|
| Sanitation, results of, table showing the death-rate in the Bombay Presidency from different causes from 1871 to 1890 inclusive -           | 42   |
| — — —, table showing the death-rate of children in Bengal during the years 1881-90 -                                                        | 40   |
| — — —, table showing the death-rate of children under six years of age in the Madras Presidency for the years from 1871 to 1890 inclusive - | 41   |
| — — —, table showing the mortality in the Madras Presidency -                                                                               | 41   |
| — — —, table showing the number of deaths of children in the Central Provinces from 1875-90 inclusive -                                     | 45   |
| Shone sewage system in Rangoon -                                                                                                            | 179  |
| Siffingwell, (Dr. Albert), remarks in discussion on factory labour in the Indian spinning and weaving mills -                               | 247  |
| Small-pox, death-rate from, in the city of Madras -                                                                                         | 42   |
| — in Bhavnagar -                                                                                                                            | 156  |
| Snakes, extermination of poisonous                                                                                                          | 221  |
| Soldiers sent out too young to India -                                                                                                      | 66   |
| Spinning and weaving mills, factory labour in. (K. N. Bahadurji) -                                                                          | 235  |
| — — —, hours of work in -                                                                                                                   | 235  |
| State Hygiene in India, practical measures needed for the development of. (Dinshah Ardeshir) -                                              | 159  |
| Statistical Summary of the city of Bombay -                                                                                                 | 172  |
| Statistics of Bhavnagar -                                                                                                                   | 154  |
| Sweeper, office of the -                                                                                                                    | 93   |

## T.

|                                                                                                      |     |
|------------------------------------------------------------------------------------------------------|-----|
| Tait (P.M.), letter dealing with rate of mortality in India -                                        | 104 |
| Tanks, polluted state of -                                                                           | 199 |
| Tansa Lake -                                                                                         | 170 |
| — Waterworks -                                                                                       | 103 |
| Temple (Major R. C.), The city of Rangoon -                                                          | 178 |
| Thornton (T. H.), remarks in discussion on progress of sanitation and preventive medicine in India - | 106 |

|                                                                                          | Page |
|------------------------------------------------------------------------------------------|------|
| Topography and sanitation of Bhavnagar. (B. Byramjee) -                                  | 149  |
| Towns and villages in the Bombay Presidency, sanitary condition of. (K. V. Dhurandhar) - | 136  |
| Towns in India more unhealthy than their districts -                                     | 202  |

## U.

|                                                                                                                           |     |
|---------------------------------------------------------------------------------------------------------------------------|-----|
| Unvala (Jamsetjee N.), How can the masses in India be made to comprehend the elementary principles of sanitary science? - | 157 |
|---------------------------------------------------------------------------------------------------------------------------|-----|

## V.

|                                                                                                   |     |
|---------------------------------------------------------------------------------------------------|-----|
| Vaccination, compulsory -                                                                         | 125 |
| —, effects of compulsory in Rangoon -                                                             | 182 |
| — in Ceylon -                                                                                     | 163 |
| — in India -                                                                                      | 32  |
| —, results of, in Berar -                                                                         | 49  |
| —, table showing the advances of, at decennial periods in different provinces -                   | 32  |
| —, voluntary, ineffectual -                                                                       | 125 |
| Venereal disease in India -                                                                       | 133 |
| Ventilation, imperfect, in all Hindu dwellings -                                                  | 217 |
| — in India -                                                                                      | 130 |
| — of the city of Calcutta -                                                                       | 176 |
| — of towns and villages -                                                                         | 33  |
| Village, normal sanitary state of Indian -                                                        | 114 |
| — sanitation, legislative action as applied to, in India. (L. Ashburner) -                        | 145 |
| Villages, in the Bombay Presidency, the sanitary condition of the towns and. (K. V. Dhurandhar) - | 136 |

## W.

|                                                                                                            |     |
|------------------------------------------------------------------------------------------------------------|-----|
| Wadia (The Hon. N. W.), remarks in discussion on factory labour in the Indian spinning and weaving mills - | 245 |
| Water, pond or tank -                                                                                      | 206 |
| —, river -                                                                                                 | 206 |
| Water-supplies in India -                                                                                  | 199 |
| — — — taken from rivers, experience of, in India -                                                         | 200 |

|                                   | Page     |                                     | Page |
|-----------------------------------|----------|-------------------------------------|------|
| Water-supply - - - -              | 33       | Weaving mills, temperature, &c. of  | 239  |
| — in Bombay - - -                 | 170      | — —, wages in - - -                 | 239  |
| — in the Bombay Presi-            |          | Wedderburn (Sir William), on        |      |
| deney - - - -                     | 141      | the desirability of a special       |      |
| — in Ceylon - - -                 | 165      | Tropical Section in future Con-     |      |
| — in India - - -                  | 128      | gresses - - - -                     | 183  |
| — in India, (Brigade-             |          | Well, cleaning of, expensive and    |      |
| Surgeon R. Pringle) - -           | 203      | ineffective - - - -                 | 209  |
| — in Rajpntana - - -              | 96       | Wells, cantonment - - -             | 208  |
| — in Rangoon - - -                | 179      | —, city - - - -                     | 208  |
| — effects of introduction of      |          | — in encamping grounds -            | 208  |
| pure, in Rangoon - - -            | 182      | —, pollution of, by khalecoovas -   | 167  |
| —, pure, a <i>sine quâ non</i> in |          | —, railway station - - -            | 208  |
| the prevention of fever - -       | 193      | —, roadside - - - -                 | 207  |
| —, from rivers, wholesome-        |          | —, supply of water from -           | 200  |
| ness of - - - -                   | 200      | —, supply of water from village     | 205  |
| —, table showing the places       |          | Widowhood, enforced - - -           | 135  |
| in India where most improved -    | 35       | Works, sanitary, published in India | 24   |
| Water, tank or pond - - -         | 206      |                                     |      |
| Waterworks of Calcutta - -        | 173      |                                     |      |
| —, the Tansa - - - -              | 103      |                                     |      |
| Weaving mills, hours of work      |          |                                     |      |
| in - - - -                        | 230, 235 |                                     |      |
| — —, rest allowed in - -          | 225, 236 |                                     |      |

## Z.

|                                    |     |
|------------------------------------|-----|
| Zenanas of India, hygiene for the. |     |
| (Surgeon-General C. R. Francis)    | 216 |



## VOLUME XII.

### MUNICIPAL HYGIENE AND DEMOGRAPHY.

#### Table of Contents.

#### TABLE OF CONTENTS.

|                                   | Page |
|-----------------------------------|------|
| ABERDEEN - - - - -                | 7    |
| ANDOVER - - - - -                 | 14   |
| BELFAST - - - - -                 | 15   |
| BIRMINGHAM - - - - -              | 19   |
| BLACKPOOL - - - - -               | 28   |
| BOURNEMOUTH - - - - -             | 32   |
| BRIGHTON - - - - -                | 38   |
| CARDIFF - - - - -                 | 41   |
| CROYDON - - - - -                 | 49   |
| DUNDEE - - - - -                  | 53   |
| EALING - - - - -                  | 58   |
| EDINBURGH - - - - -               | 63   |
| GLASGOW - - - - -                 | 69   |
| GLOUCESTER - - - - -              | 82   |
| HANLEY - - - - -                  | 84   |
| HUDDERSFIELD - - - - -            | 86   |
| LANCASTER - - - - -               | 91   |
| LEEDS - - - - -                   | 94   |
| LIVERPOOL - - - - -               | 101  |
| MORECAMBE - - - - -               | 113  |
| NEWCASTLE-UPON-TYNE - - - - -     | 115  |
| PAIGNTON - - - - -                | 121  |
| PRESTON - - - - -                 | 122  |
| RICHMOND, SURREY - - - - -        | 124  |
| RYDE - - - - -                    | 128  |
| ST. HELEN'S, LANCASHIRE - - - - - | 133  |
| SALFORD - - - - -                 | 136  |
| WALLINGFORD - - - - -             | 142  |
| WOLVERHAMPTON - - - - -           | 146  |

|                                     | Page |
|-------------------------------------|------|
| AHMEDABAD - - - - -                 | 151  |
| BOMBAY - - - - -                    | 155  |
| CALCUTTA - - - - -                  | 159  |
| RANGOON - - - - -                   | 164  |
| CITY OF AUCKLAND, N.Z. - - - - -    | 169  |
| COLONY OF SOUTH AUSTRALIA - - - - - | 171  |

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